

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P383487

Luminaire Tested: **GLEON-SA7D-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7D-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51135.4 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

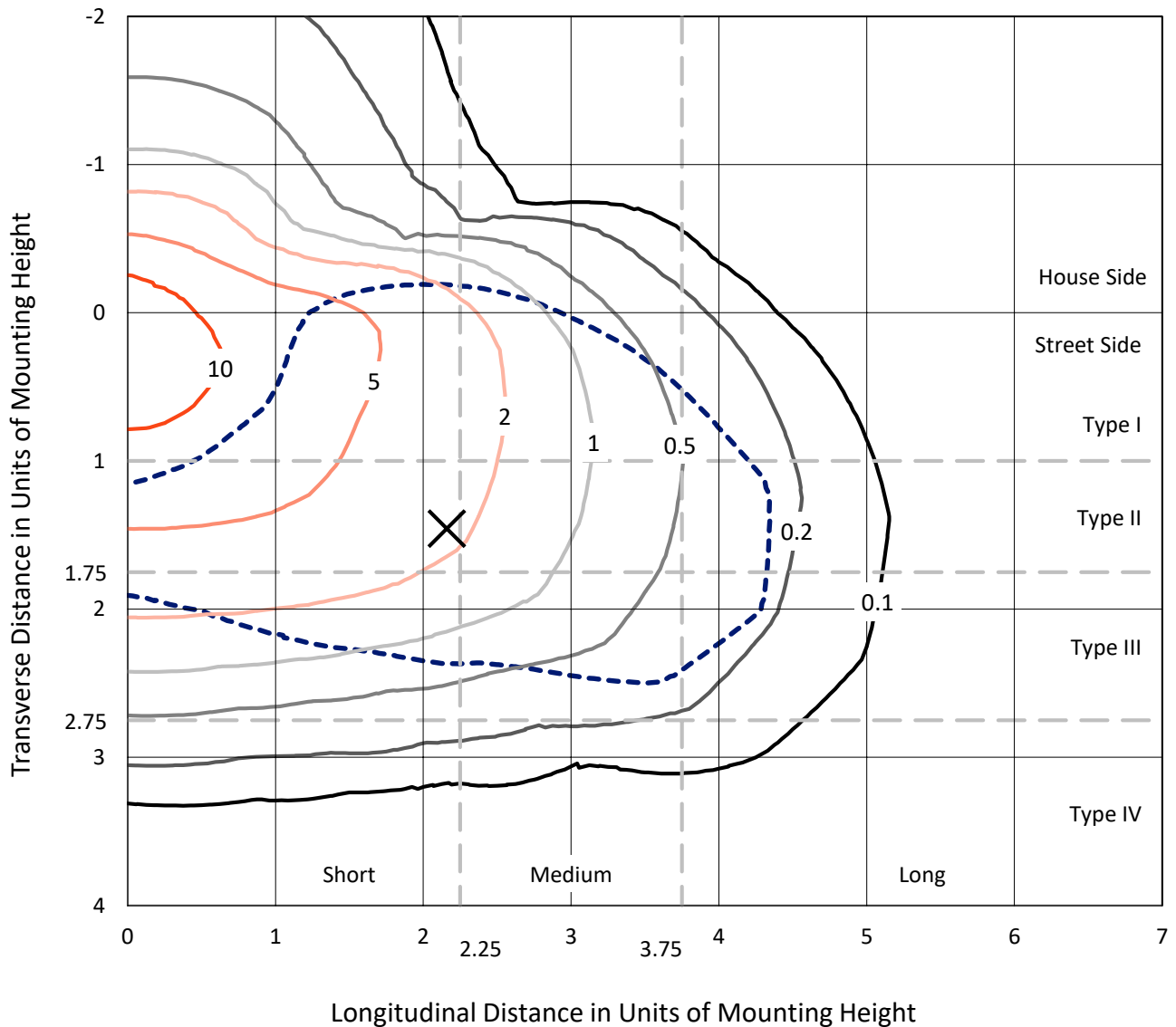
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383487
 CATALOG NUMBER: GLEON-SA7D-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

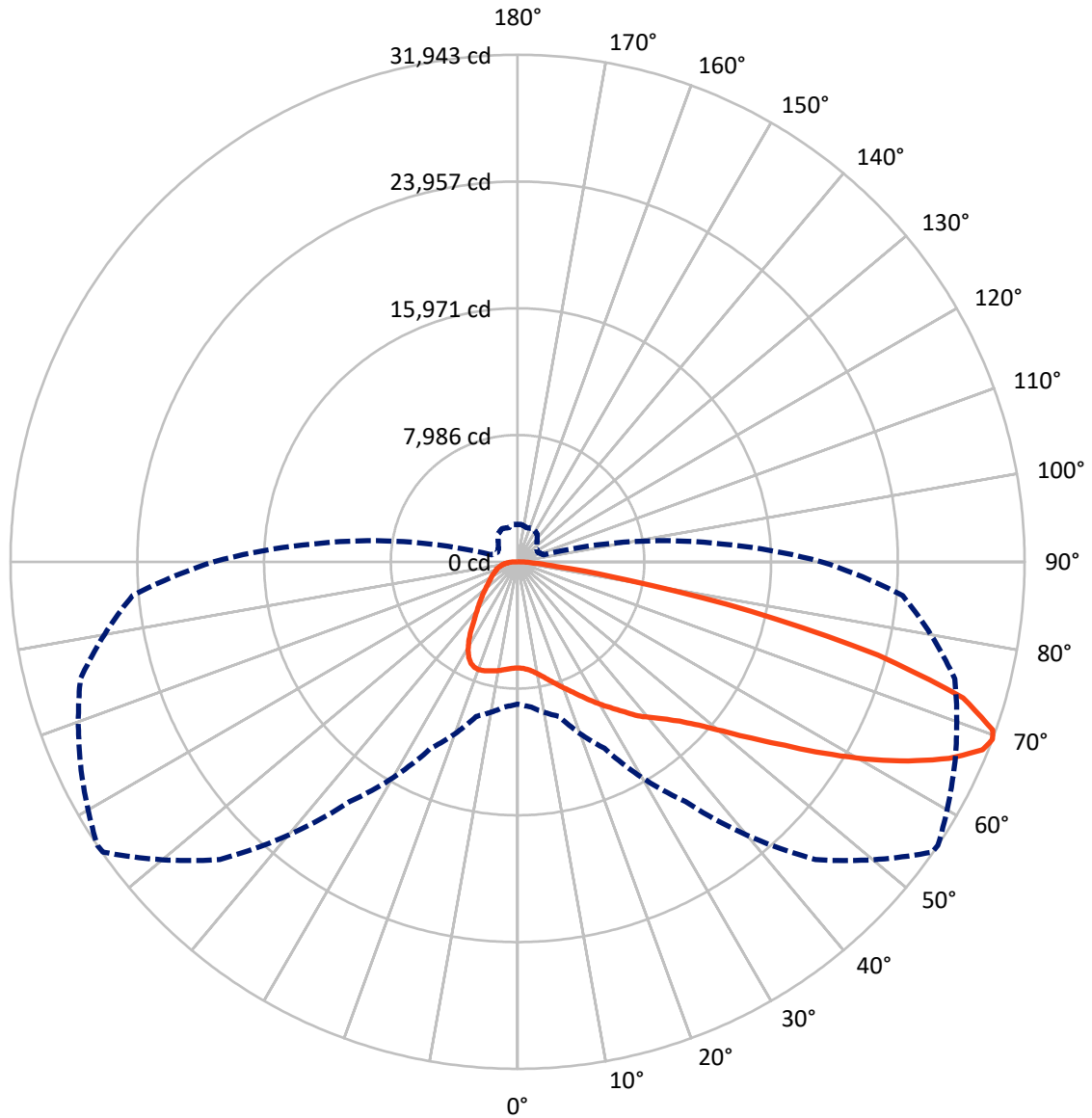
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type III - Short - N/A

REPORT NUMBER: P383487
CATALOG NUMBER: GLEON-SA7D-735-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P383487
 CATALOG NUMBER: GLEON-SA7D-735-U-T3

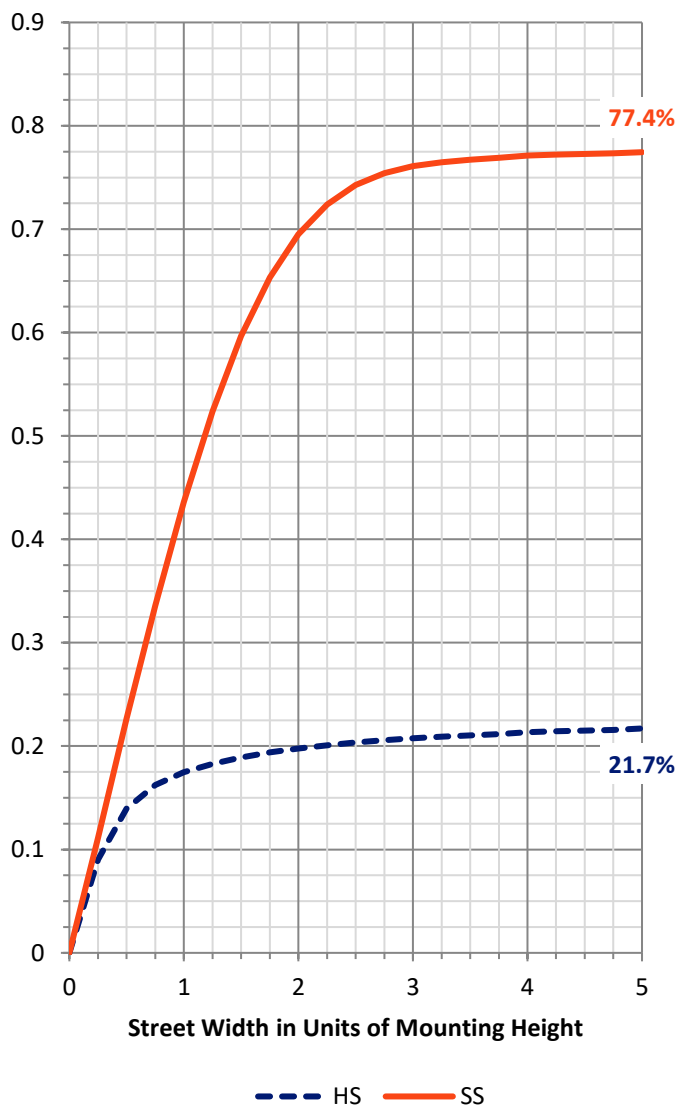
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11387.8	0.0	11387.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	39747.7	0.0	39747.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	51135.4	0.0	51135.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.6	1.3
10°-20°	2111.3	4.1
20°-30°	3685.6	7.2
30°-40°	5294.2	10.4
40°-50°	7326.9	14.3
50°-60°	10734.9	21.0
60°-70°	13087.9	25.6
70°-80°	7235.8	14.2
80°-90°	1002.2	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	51135.4	100.0
0°-180°	51135.4	100.0

Coefficient of Utilization



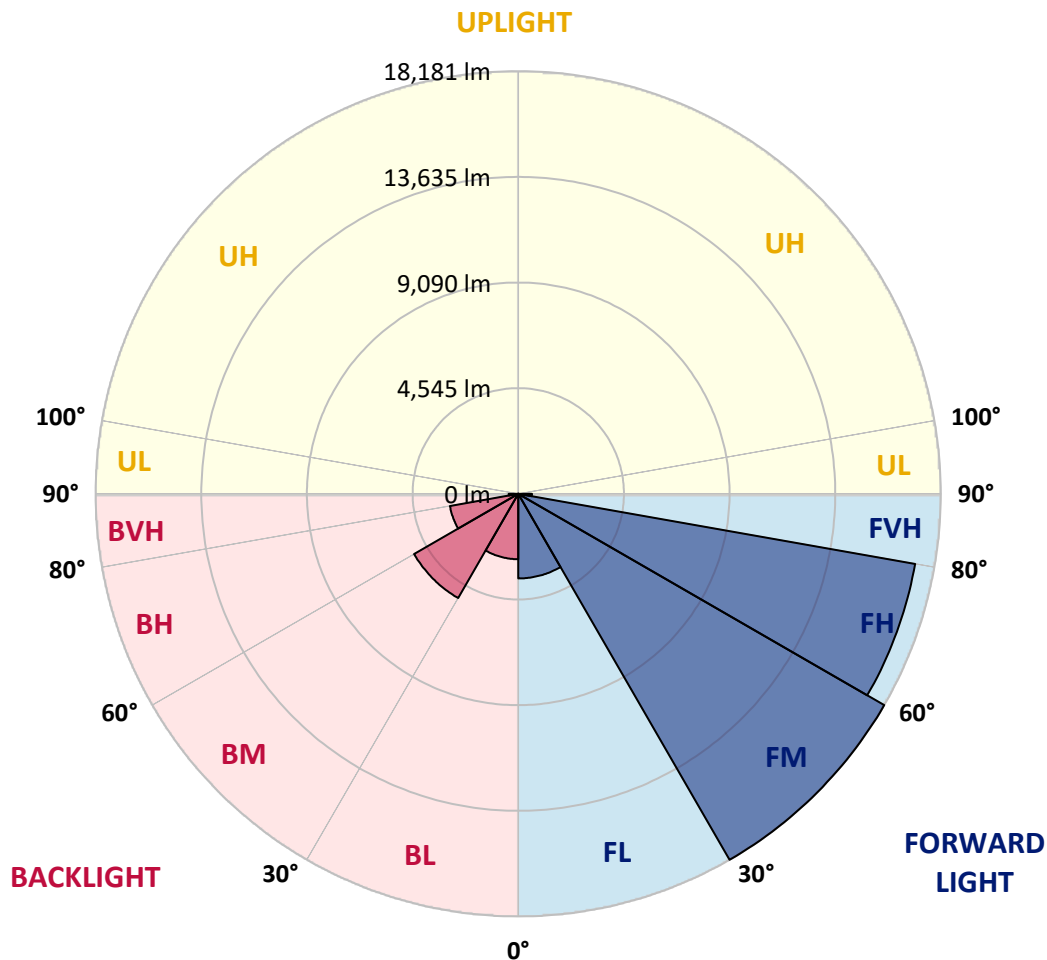
REPORT NUMBER: P383487
 CATALOG NUMBER: GLEON-SA7D-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3639.3	7.1			
FM (30°-60°)	18180.6	35.6			
FH (60°-80°)	17337.5	33.9			G5
FVH (80°-90°)	590.3	1.2			G4/750
BL (0°-30°)	2814.2	5.5	B4/5000		
BM (30°-60°)	5175.5	10.1	B4/8500		
BH (60°-80°)	2986.2	5.8	B4/5000		G4/5000
BVH (80°-90°)	411.9	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





REPORT NUMBER: P383487

CATALOG NUMBER: GLEON-SA7D-735-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2
2.5°	6727.5	6734.5	6729.2	6743.3	6727.5	6738.1	6729.2	6729.2	6723.9	6708.1	6690.5
5°	6833.2	6847.2	6838.5	6852.6	6833.2	6836.7	6820.8	6820.8	6805.0	6771.5	6736.3
7.5°	6998.7	7014.6	7007.6	7021.6	6995.3	6995.3	6974.1	6972.4	6940.6	6886.0	6845.5
10°	7196.0	7217.2	7210.2	7231.3	7210.2	7217.2	7196.0	7196.0	7153.7	7076.2	7025.2
12.5°	7483.2	7509.6	7490.2	7488.4	7479.7	7493.7	7476.1	7472.6	7433.8	7328.2	7257.7
15°	7867.2	7895.4	7854.9	7851.4	7802.0	7796.8	7796.8	7791.5	7766.8	7640.0	7523.7
17.5°	8309.4	8318.2	8282.9	8226.6	8163.2	8122.6	8117.3	8131.5	8131.5	7983.5	7798.5
20°	8742.7	8758.6	8730.4	8666.9	8585.9	8526.1	8483.8	8511.9	8510.2	8334.0	8071.6
22.5°	9214.8	9251.9	9209.6	9128.5	9033.4	8966.4	8892.5	8917.1	8918.9	8702.2	8339.3
25°	9826.1	9792.6	9766.2	9651.7	9516.0	9447.4	9378.6	9403.3	9396.2	9098.5	8615.9
27.5°	10366.9	10373.9	10338.7	10217.1	10060.3	9908.9	9905.3	9921.2	9894.8	9510.7	8876.6
30°	10995.8	10999.2	10950.0	10840.8	10669.9	10474.3	10428.6	10454.9	10398.6	9901.8	9151.4
32.5°	11621.1	11638.8	11584.2	11452.0	11314.6	11076.8	10985.2	11002.8	10861.8	10301.7	9435.0
35°	12169.0	12193.7	12176.1	12087.9	11938.2	11733.9	11624.7	11614.1	11439.7	10791.4	9810.2
37.5°	12727.4	12750.3	12730.9	12656.9	12597.0	12380.4	12322.2	12322.2	12019.3	11291.8	10287.6
40°	13301.7	13336.9	13314.1	13211.9	13160.7	13062.1	12922.9	12889.5	12561.8	11892.4	11066.2
42.5°	13835.4	13881.3	13972.8	13912.9	13809.0	13823.1	13543.0	13525.4	13285.8	12780.3	12043.9
45°	14592.9	14659.9	14814.9	14769.0	14747.9	14670.4	14337.4	14321.6	14230.0	13974.6	13257.6
47.5°	15419.1	15510.7	15790.8	15799.6	16026.8	15880.7	15427.9	15373.3	15394.5	15405.0	14739.1
50°	16180.1	16280.5	16740.3	16957.0	17492.5	17524.2	16800.2	16750.8	16833.6	17076.8	16465.5
52.5°	16787.9	16914.7	17489.0	18158.4	19076.1	19336.9	18489.5	18452.6	18514.2	18933.4	18417.3
55°	17233.5	17370.9	17996.3	19215.3	20680.9	21140.7	20434.3	20399.0	20437.9	20971.6	20540.0
57.5°	17337.5	17370.9	18278.2	19927.0	22035.6	23140.1	22814.2	22743.7	22553.5	23018.5	22882.9
60°	16849.5	16983.4	18045.6	20177.1	23083.7	25111.3	25301.6	25213.5	24679.7	25060.2	24951.0
62.5°	15859.5	16099.1	17177.2	19796.6	23494.2	26721.3	27741.3	27635.7	26716.1	26962.7	26437.8
65°	14242.3	14344.5	15477.2	18484.2	22972.7	27751.9	29916.8	29864.0	28706.7	28320.9	26712.6
67.5°	11349.9	11541.9	12503.7	15741.5	20839.5	27630.4	31599.2	31593.9	30006.7	28824.7	25738.4
69°	8966.4	9165.5	10081.5	12967.0	18440.2	26518.8	31881.0	31942.7	30373.1	28518.2	24346.7
70°	7148.5	7379.3	8008.1	10921.7	16310.5	25053.1	31646.7	31757.8	30302.7	28012.7	23062.6
72.5°	3042.2	3228.9	3676.4	5630.0	9940.5	18708.0	28935.6	29354.9	28669.7	25638.1	19060.3
75°	1328.2	1386.3	1588.9	2295.3	4412.7	10181.9	22668.0	23443.0	24514.1	21671.0	14198.3
77.5°	972.3	997.0	1108.1	1347.6	1980.0	3845.5	14577.0	15028.0	17679.2	15769.6	8709.2
80°	752.2	769.8	856.1	990.0	1293.0	1555.5	6648.2	7035.7	9940.5	8099.7	3627.1
82.5°	598.9	611.3	671.2	729.3	893.1	942.4	2207.3	2448.6	3669.4	2237.2	960.1
85°	556.7	570.8	591.9	532.0	572.5	553.2	954.7	998.8	1108.1	879.0	401.7
87.5°	251.9	297.7	586.6	414.0	304.7	243.1	391.1	408.7	459.8	461.5	177.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P383487

CATALOG NUMBER: GLEON-SA7D-735-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2	6685.2
2.5°	6701.1	6695.8	6704.5	6683.4	6709.8	6708.1	6699.3	6702.8	6720.5	6718.7	6720.5
5°	6741.5	6738.1	6748.6	6732.8	6764.4	6775.1	6776.8	6792.7	6812.0	6817.3	6817.3
7.5°	6843.7	6843.7	6849.0	6827.9	6849.0	6847.2	6838.5	6854.3	6873.7	6875.5	6873.7
10°	7019.9	7021.6	7012.9	6958.2	6940.6	6893.1	6849.0	6850.8	6875.5	6894.8	6900.1
12.5°	7241.9	7234.8	7196.0	7095.6	7021.6	6924.8	6878.9	6877.2	6901.8	6917.7	6923.0
15°	7495.5	7476.1	7375.7	7211.9	7081.5	6986.4	6912.5	6894.8	6880.7	6863.1	6864.9
17.5°	7735.1	7691.0	7523.7	7296.4	7159.0	7032.3	6889.5	6775.1	6695.8	6649.9	6635.9
20°	7978.1	7891.9	7650.5	7375.7	7201.3	6970.6	6695.8	6463.3	6318.8	6251.8	6239.5
22.5°	8200.1	8061.0	7768.5	7458.5	7167.9	6762.7	6331.1	5992.9	5792.1	5702.2	5709.3
25°	8416.8	8223.1	7891.9	7516.7	6998.7	6396.3	5823.8	5408.0	5175.5	5075.1	5071.6
27.5°	8607.0	8386.9	8025.7	7469.1	6683.4	5874.9	5223.1	4817.9	4624.1	4537.8	4523.7
30°	8825.5	8593.0	8203.7	7287.7	6221.9	5272.4	4636.5	4351.1	4213.7	4127.4	4111.5
32.5°	9091.5	8873.1	8349.9	6958.2	5631.8	4643.5	4178.5	3979.4	3854.4	3757.5	3739.8
35°	9479.1	9243.0	8386.9	6486.1	4983.5	4146.8	3842.0	3637.7	3468.5	3343.5	3331.1
37.5°	9965.2	9706.3	8302.3	5874.9	4354.6	3824.4	3561.9	3310.0	3089.9	2913.7	2885.5
40°	10666.3	10275.2	8068.0	5170.3	3891.4	3576.0	3288.8	3001.7	2728.7	2522.5	2482.1
42.5°	11508.4	10942.9	7708.6	4469.1	3551.3	3324.1	3017.6	2661.7	2401.1	2254.8	2233.7
45°	12579.4	11637.0	7210.2	3856.1	3216.6	3072.2	2725.1	2397.5	2235.4	2128.0	2110.3
47.5°	13802.0	12415.6	6686.9	3357.6	2933.1	2836.1	2490.9	2279.5	2150.9	2066.4	2050.5
50°	15304.6	13294.7	6132.1	2948.9	2647.6	2552.5	2379.9	2214.3	2112.1	2047.0	2031.1
52.5°	16999.3	14286.4	5732.2	2626.5	2411.6	2342.9	2321.8	2179.1	2096.3	2047.0	2031.1
55°	18824.2	15295.8	5300.6	2355.2	2207.3	2226.7	2283.0	2182.6	2126.3	2066.4	2043.4
57.5°	20651.0	16338.6	4819.6	2126.3	2045.2	2140.3	2256.6	2189.6	2142.1	2084.0	2062.8
60°	22095.5	16999.3	4074.5	1934.2	1916.6	2045.2	2193.1	2136.8	2075.1	2076.9	2073.3
62.5°	22770.2	16964.0	3251.8	1763.3	1788.0	1916.6	2091.0	2054.0	2002.9	2071.6	2076.9
65°	22391.4	16118.5	2531.4	1608.3	1650.6	1782.7	1985.3	2013.4	2031.1	2163.2	2180.8
67.5°	20802.5	14473.1	1960.6	1472.7	1525.5	1691.1	1995.8	2193.1	2216.1	2355.2	2353.5
69°	19159.0	12930.0	1703.4	1402.3	1463.8	1714.0	2133.2	2307.6	2221.4	2369.3	2348.2
70°	17781.4	11709.2	1566.0	1354.7	1435.7	1754.6	2224.9	2305.9	2194.9	2321.8	2286.5
72.5°	13694.5	8423.9	1328.2	1266.5	1340.6	1678.7	2251.3	2254.8	2133.2	2157.9	2098.0
75°	9392.7	5323.5	1159.1	1146.8	1196.1	1513.2	2166.8	2154.4	1972.9	1937.7	1888.4
77.5°	5179.0	2704.0	984.7	1032.2	1065.8	1340.6	1969.5	1951.9	1802.1	1728.1	1710.5
80°	1997.6	1183.8	831.5	917.8	938.9	1160.9	1726.3	1710.5	1585.4	1490.3	1463.8
82.5°	754.0	620.0	687.0	794.5	787.4	958.3	1462.1	1453.3	1331.7	1192.6	1150.3
85°	348.8	371.7	544.3	655.3	604.2	709.9	1169.7	1185.6	1037.6	872.0	872.0
87.5°	147.9	207.8	385.8	495.0	406.9	479.2	857.9	819.1	752.2	521.4	489.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)