

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: P318534

Luminaire Tested: **GLEON-SA0C-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318534
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-SA0C-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51476 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

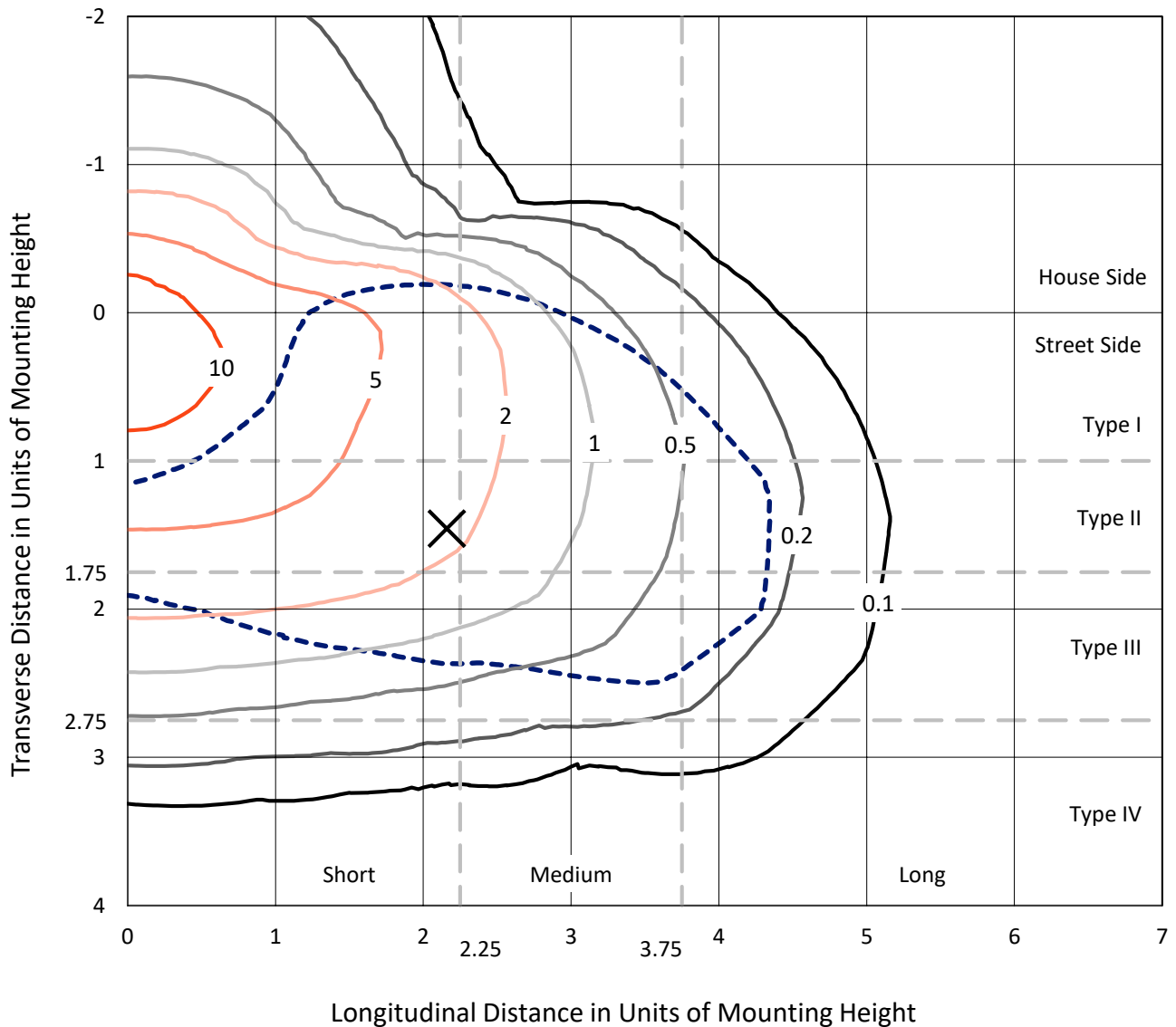
Input Watts (W): 558
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318534
 CATALOG NUMBER: GLEON-SA0C-827-U-T3

Iso-Footcandle Lines of Horizontal Illumination

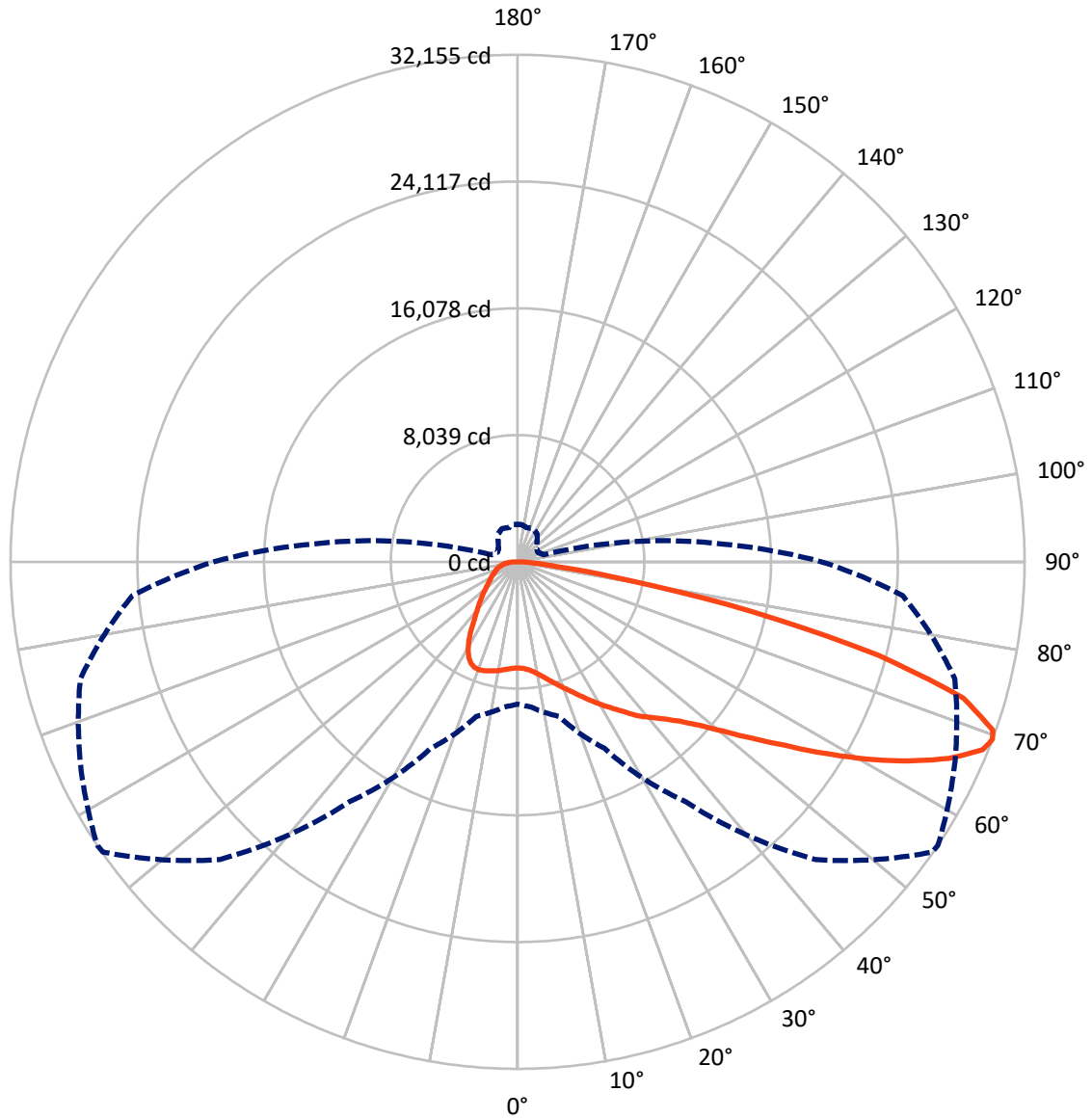
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Short - N/A

REPORT NUMBER: P318534
CATALOG NUMBER: GLEON-SA0C-827-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P318534
 CATALOG NUMBER: GLEON-SA0C-827-U-T3

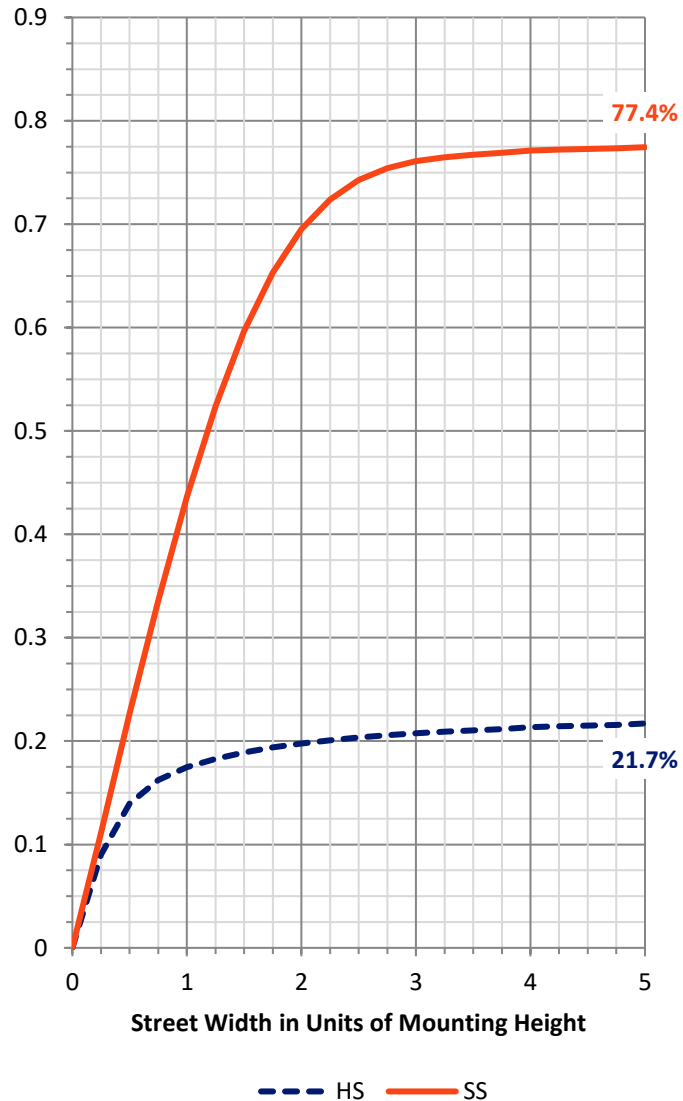
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11463.6	0.0	11463.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	40012.4	0.0	40012.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	51476.0	0.0	51476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	661.0	1.3
10°-20°	2125.4	4.1
20°-30°	3710.1	7.2
30°-40°	5329.5	10.4
40°-50°	7375.7	14.3
50°-60°	10806.4	21.0
60°-70°	13175.1	25.6
70°-80°	7284.0	14.2
80°-90°	1008.8	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°	51476.0	100.0
0°-180°	51476.0	100.0

Coefficient of Utilization

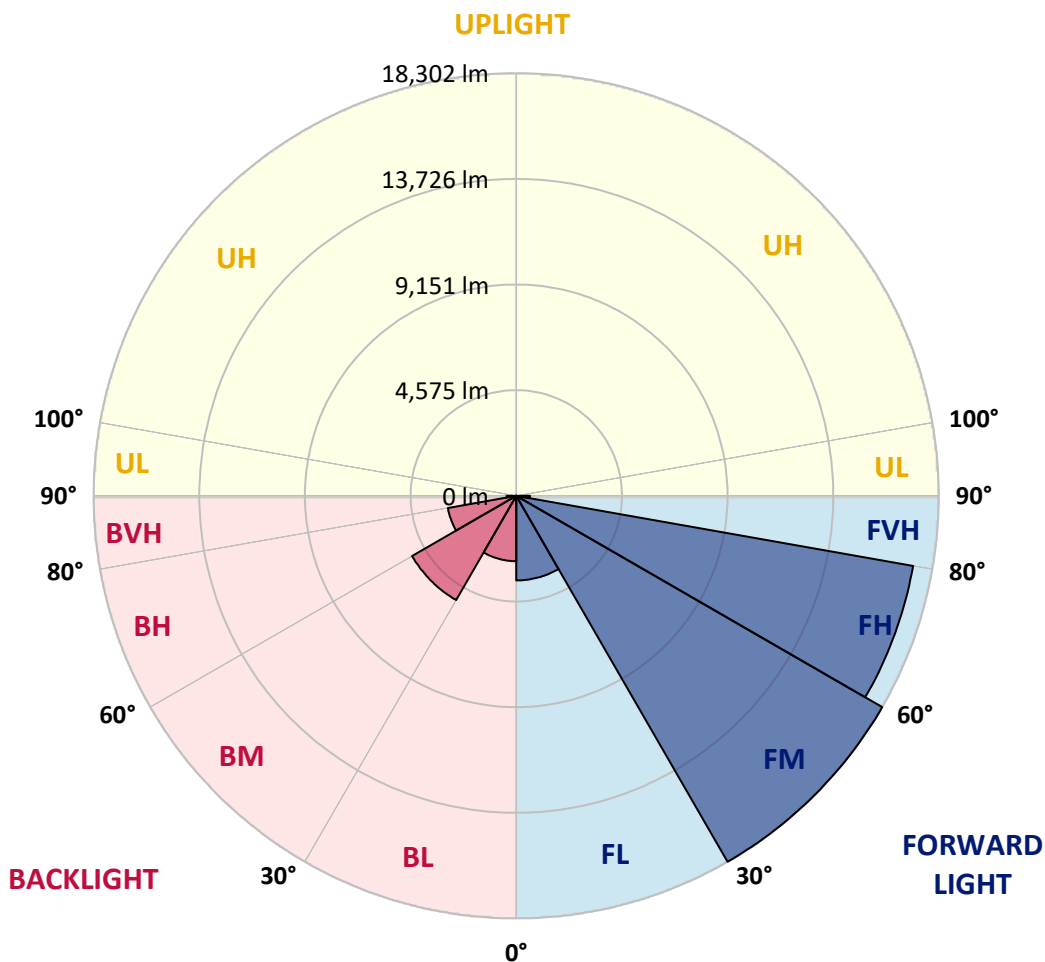


REPORT NUMBER: P318534
 CATALOG NUMBER: GLEON-SA0C-827-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3663.6	7.1			
FM (30°-60°)	18301.6	35.6			
FH (60°-80°)	17452.9	33.9			G5
FVH (80°-90°)	594.2	1.2			G4/750
BL (0°-30°)	2832.9	5.5	B4/5000		
BM (30°-60°)	5210.0	10.1	B4/8500		
BH (60°-80°)	3006.1	5.8	B4/5000		G4/5000
BVH (80°-90°)	414.6	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: P318534
 CATALOG NUMBER: GLEON-SA0C-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6729.7	6729.7	6729.7	6729.7	6729.7	6729.7	6729.7	6729.7	6729.7	6729.7	6729.7
2.5°	6772.3	6779.4	6774.0	6788.2	6772.3	6782.9	6774.0	6774.0	6768.7	6752.8	6735.0
5°	6878.7	6892.9	6884.0	6898.2	6878.7	6882.2	6866.3	6866.3	6850.3	6816.6	6781.1
7.5°	7045.4	7061.3	7054.2	7068.4	7041.8	7041.8	7020.5	7018.8	6986.8	6931.9	6891.1
10°	7244.0	7265.3	7258.2	7279.4	7258.2	7265.3	7244.0	7244.0	7201.4	7123.4	7072.0
12.5°	7533.0	7559.6	7540.1	7538.3	7529.5	7543.7	7525.9	7522.4	7483.4	7377.0	7306.0
15°	7919.6	7948.0	7907.2	7903.6	7854.0	7848.7	7848.7	7843.4	7818.5	7690.8	7573.8
17.5°	8364.7	8373.6	8338.1	8281.4	8217.5	8176.7	8171.4	8185.6	8185.6	8036.6	7850.4
20°	8800.9	8816.9	8788.5	8724.7	8643.1	8582.8	8540.3	8568.6	8566.9	8389.5	8125.3
22.5°	9276.2	9313.4	9270.9	9189.3	9093.5	9026.1	8951.7	8976.5	8978.3	8760.2	8394.9
25°	9891.5	9857.8	9831.2	9716.0	9579.4	9510.3	9441.1	9465.9	9458.8	9159.1	8673.3
27.5°	10435.9	10443.0	10407.6	10285.2	10127.4	9974.9	9971.3	9987.3	9960.7	9574.1	8935.7
30°	11069.0	11072.5	11022.9	10913.0	10740.9	10544.1	10498.0	10524.6	10467.9	9967.8	9212.3
32.5°	11698.5	11716.3	11661.3	11528.3	11390.0	11150.6	11058.4	11076.1	10934.2	10370.3	9497.8
35°	12250.0	12274.9	12257.1	12168.5	12017.7	11812.0	11702.1	11691.4	11515.9	10863.3	9875.6
37.5°	12812.2	12835.2	12815.7	12741.2	12680.9	12462.8	12404.3	12404.3	12099.3	11366.9	10356.1
40°	13390.3	13425.7	13402.7	13299.8	13248.4	13149.1	13009.0	12975.3	12645.5	11971.6	11139.9
42.5°	13927.6	13973.7	14065.9	14005.6	13901.0	13915.2	13633.2	13615.5	13374.3	12865.4	12124.1
45°	14690.1	14757.5	14913.5	14867.4	14846.2	14768.1	14433.0	14417.0	14324.8	14067.7	13345.9
47.5°	15521.8	15614.0	15896.0	15904.8	16133.6	15986.4	15530.7	15475.7	15497.0	15507.6	14837.3
50°	16287.9	16388.9	16851.8	17069.9	17609.0	17640.9	16912.1	16862.4	16945.8	17190.5	16575.1
52.5°	16899.6	17027.3	17605.4	18279.3	19203.2	19465.6	18612.7	18575.4	18637.5	19059.5	18540.0
55°	17348.3	17486.6	18116.1	19343.3	20818.7	21281.5	20570.4	20534.9	20573.9	21111.3	20676.8
57.5°	17452.9	17486.6	18399.9	20059.7	22182.3	23294.2	22966.1	22895.2	22703.7	23171.8	23035.3
60°	16961.7	17096.5	18165.8	20311.5	23237.5	25278.5	25470.1	25381.4	24844.1	25227.1	25117.2
62.5°	15965.1	16206.3	17291.5	19928.5	23650.6	26899.3	27926.1	27819.7	26894.0	27142.3	26613.8
65°	14337.2	14440.1	15580.3	18607.3	23125.7	27936.7	30116.1	30062.9	28897.9	28509.5	26890.5
67.5°	11425.4	11618.7	12587.0	15846.3	20978.3	27814.4	31809.6	31804.3	30206.6	29016.7	25909.8
69°	9026.1	9226.5	10148.7	13053.3	18563.0	26695.4	32093.4	32155.4	30575.4	28708.1	24508.9
70°	7196.1	7428.4	8061.5	10994.5	16419.1	25220.0	31857.5	31969.2	30504.5	28199.2	23216.2
72.5°	3062.5	3250.5	3700.9	5667.5	10006.8	18832.6	29128.4	29550.4	28860.6	25808.8	19187.2
75°	1337.1	1395.6	1599.5	2310.6	4442.1	10249.7	22819.0	23599.2	24677.4	21815.3	14292.9
77.5°	978.9	1003.7	1115.4	1356.6	1993.2	3871.1	14674.1	15128.1	17796.9	15874.7	8767.2
80°	757.2	774.9	861.8	996.6	1301.6	1565.8	6692.5	7082.6	10006.8	8153.7	3651.2
82.5°	602.9	615.3	675.6	734.2	899.1	948.7	2222.0	2464.9	3693.8	2252.1	966.5
85°	560.4	574.6	595.8	535.5	576.3	556.8	961.1	1005.5	1115.4	884.9	404.3
87.5°	253.6	299.7	590.5	416.7	306.8	244.7	393.7	411.4	462.8	464.6	179.1
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: P318534
 CATALOG NUMBER: GLEON-SA0C-827-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6729.7	6729.7	6729.7	6729.7	6729.7	6729.7	6729.7	6729.7	6729.7	6729.7	6729.7
2.5°	6745.7	6740.4	6749.2	6727.9	6754.5	6752.8	6743.9	6747.4	6765.2	6763.4	6765.2
5°	6786.5	6782.9	6793.6	6777.6	6809.5	6820.2	6821.9	6837.9	6857.4	6862.7	6862.7
7.5°	6889.3	6889.3	6894.6	6873.4	6894.6	6892.9	6884.0	6899.9	6919.5	6921.2	6919.5
10°	7066.6	7068.4	7059.5	7004.6	6986.8	6939.0	6894.6	6896.4	6921.2	6940.7	6946.1
12.5°	7290.1	7283.0	7244.0	7142.9	7068.4	6970.9	6924.8	6923.0	6947.8	6963.8	6969.1
15°	7545.4	7525.9	7424.8	7259.9	7128.7	7032.9	6958.5	6940.7	6926.5	6908.8	6910.6
17.5°	7786.6	7742.3	7573.8	7345.1	7206.7	7079.1	6935.4	6820.2	6740.4	6694.2	6680.1
20°	8031.3	7944.4	7701.5	7424.8	7249.3	7017.0	6740.4	6506.3	6360.9	6293.5	6281.1
22.5°	8254.8	8114.7	7820.3	7508.2	7215.6	6807.7	6373.3	6032.8	5830.6	5740.2	5747.3
25°	8472.9	8277.8	7944.4	7566.7	7045.4	6438.9	5862.6	5444.1	5210.0	5108.9	5105.4
27.5°	8664.4	8442.7	8079.2	7518.8	6727.9	5914.0	5257.9	4850.0	4654.9	4568.0	4553.9
30°	8884.3	8650.2	8258.3	7336.2	6263.3	5307.5	4667.4	4380.1	4241.8	4154.9	4138.9
32.5°	9152.1	8932.2	8405.5	7004.6	5669.3	4674.4	4206.3	4005.9	3880.0	3782.5	3764.7
35°	9542.2	9304.6	8442.7	6529.3	5016.7	4174.4	3867.6	3661.9	3491.6	3365.7	3353.3
37.5°	10031.6	9770.9	8357.6	5914.0	4383.6	3849.9	3585.6	3332.0	3110.4	2933.1	2904.7
40°	10737.4	10343.7	8121.8	5204.7	3917.2	3599.8	3310.8	3021.7	2746.9	2539.4	2498.6
42.5°	11585.0	11015.8	7760.0	4498.9	3575.0	3346.2	3037.7	2679.5	2417.0	2269.8	2248.6
45°	12663.2	11714.5	7258.2	3881.8	3238.1	3092.7	2743.3	2413.5	2250.3	2142.2	2124.4
47.5°	13893.9	12498.3	6731.5	3379.9	2952.6	2855.0	2507.5	2294.7	2165.2	2080.1	2064.1
50°	15406.5	13383.2	6172.9	2968.5	2665.3	2569.5	2395.7	2229.1	2126.2	2060.6	2044.6
52.5°	17112.4	14381.5	5770.4	2644.0	2427.7	2358.5	2337.2	2193.6	2110.2	2060.6	2044.6
55°	18949.6	15397.7	5335.9	2370.9	2222.0	2241.5	2298.2	2197.1	2140.4	2080.1	2057.0
57.5°	20788.5	16447.5	4851.8	2140.4	2058.8	2154.6	2271.6	2204.2	2156.3	2097.8	2076.5
60°	22242.6	17112.4	4101.7	1947.1	1929.4	2058.8	2207.8	2151.0	2089.0	2090.7	2087.2
62.5°	22921.8	17077.0	3273.5	1775.1	1799.9	1929.4	2104.9	2067.7	2016.3	2085.4	2090.7
65°	22540.5	16225.8	2548.2	1619.0	1661.6	1794.6	1998.5	2026.9	2044.6	2177.6	2195.4
67.5°	20941.0	14569.5	1973.7	1482.5	1535.7	1702.4	2009.2	2207.8	2230.8	2370.9	2369.1
69°	19286.5	13016.1	1714.8	1411.6	1473.6	1725.4	2147.5	2323.0	2236.1	2385.1	2363.8
70°	17899.8	11787.2	1576.5	1363.7	1445.2	1766.2	2239.7	2321.3	2209.5	2337.2	2301.8
72.5°	13785.7	8480.0	1337.1	1275.0	1349.5	1690.0	2266.3	2269.8	2147.5	2172.3	2112.0
75°	9455.3	5358.9	1166.8	1154.4	1204.1	1523.3	2181.2	2168.8	1986.1	1950.6	1901.0
77.5°	5213.5	2722.0	991.3	1039.2	1072.9	1349.5	1982.6	1964.8	1814.1	1739.6	1721.9
80°	2010.9	1191.7	837.0	923.9	945.2	1168.6	1737.8	1721.9	1596.0	1500.2	1473.6
82.5°	759.0	624.2	691.6	799.8	792.7	964.7	1471.8	1463.0	1340.6	1200.5	1158.0
85°	351.1	374.2	548.0	659.7	608.2	714.6	1177.5	1193.4	1044.5	877.8	877.8
87.5°	149.0	209.3	388.4	498.3	409.6	482.3	863.6	824.6	757.2	524.9	493.0
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)