

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: P383343

Luminaire Tested: **GLEON-SA6C-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6C-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38673.2 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

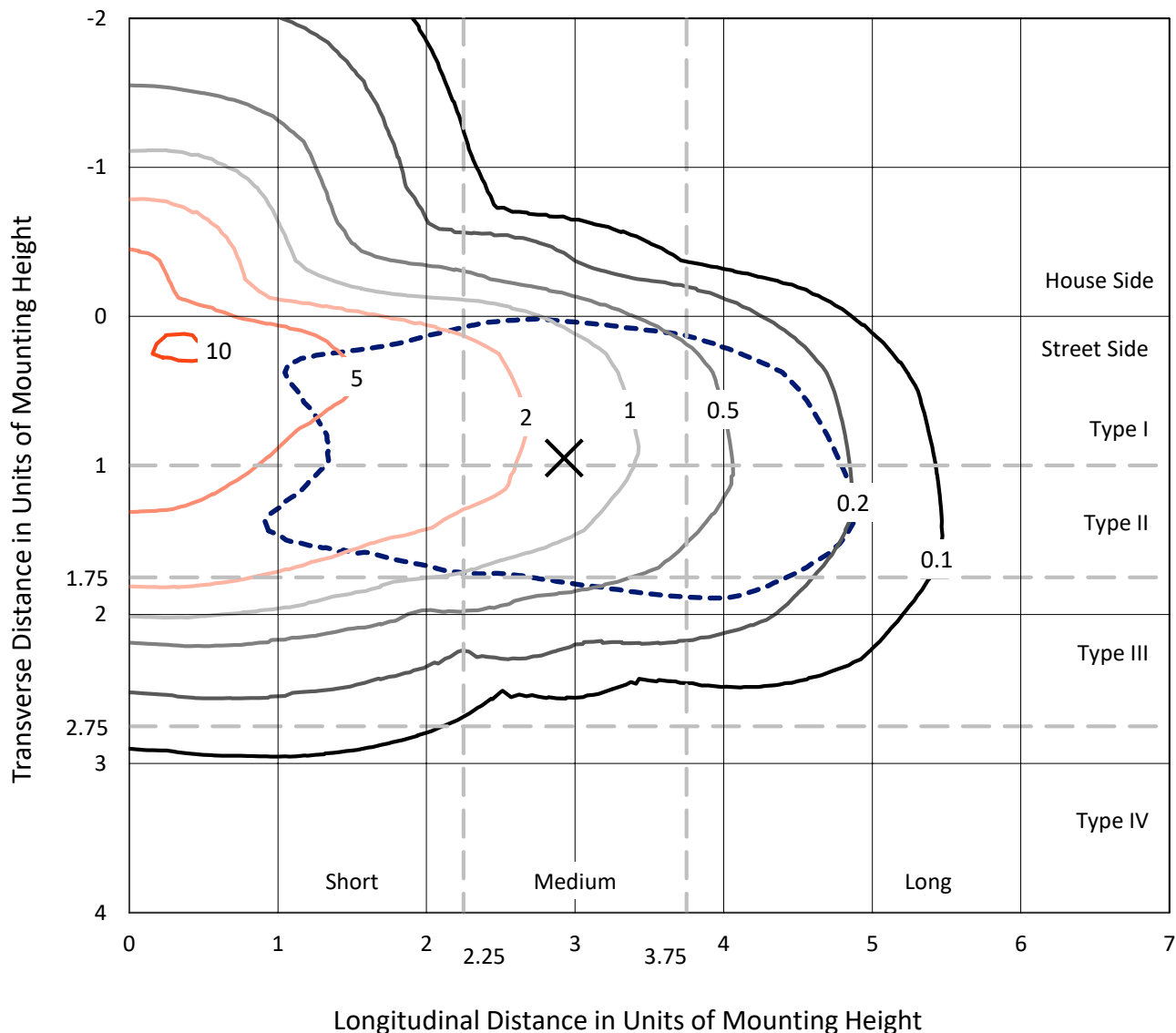
Input Watts (W): 333
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383343
 CATALOG NUMBER: GLEON-SA6C-735-U-T2

Iso-Footcandle Lines of Horizontal Illumination

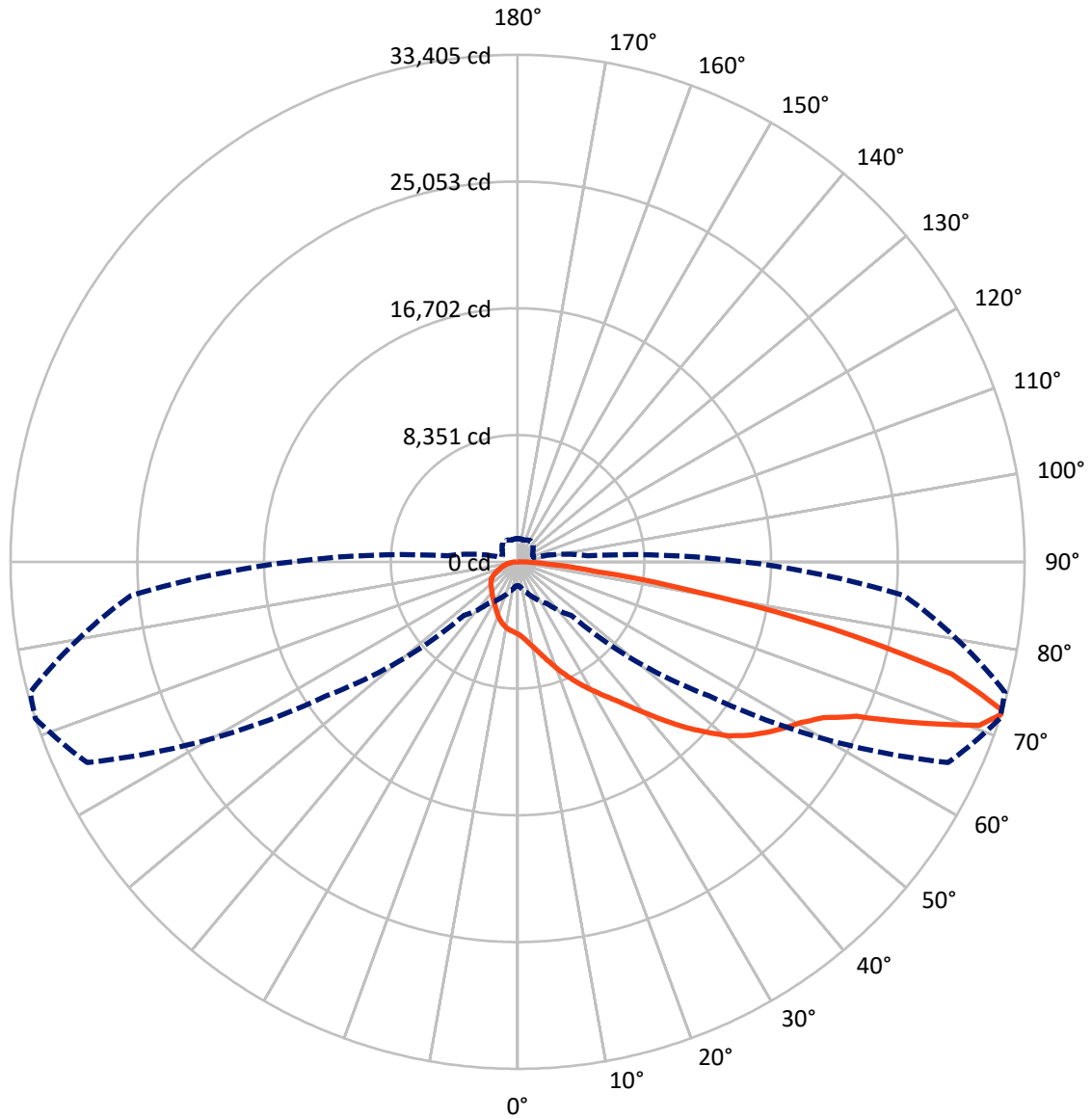
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P383343
CATALOG NUMBER: GLEON-SA6C-735-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P383343
 CATALOG NUMBER: GLEON-SA6C-735-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7174.1	0.0	7174.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	31499.1	0.0	31499.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	38673.2	0.0	38673.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.7	1.2
10°-20°	1540.6	4.0
20°-30°	2699.6	7.0
30°-40°	4002.7	10.4
40°-50°	5854.3	15.1
50°-60°	8055.5	20.8
60°-70°	8968.1	23.2
70°-80°	6076.8	15.7
80°-90°	998.8	2.6
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°	38673.2	100.0
0°-180°	38673.2	100.0

Coefficient of Utilization

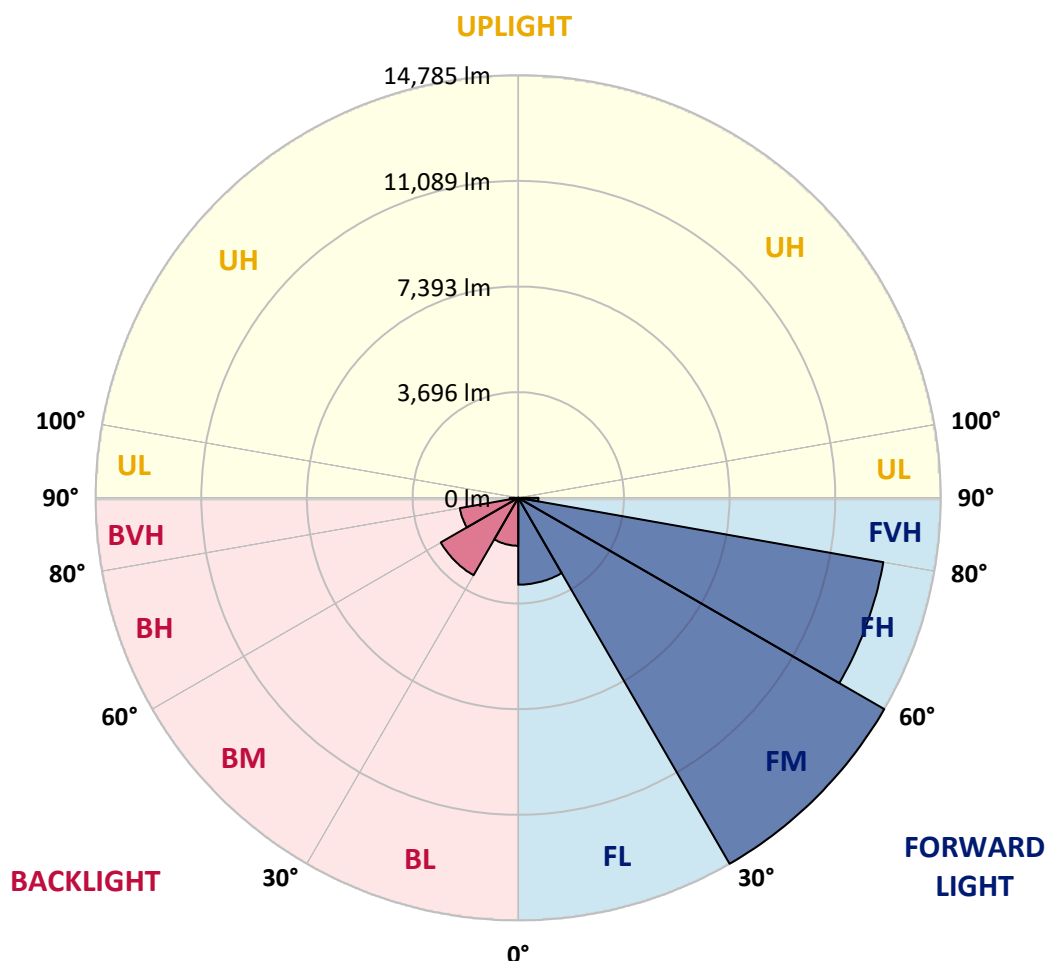


REPORT NUMBER: P383343
 CATALOG NUMBER: GLEON-SA6C-735-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3039.9	7.9			
FM (30°-60°)	14785.2	38.2			
FH (60°-80°)	12969.4	33.5			G5
FVH (80°-90°)	704.5	1.8			G4/750
BL (0°-30°)	1677.1	4.3	B3/2500		
BM (30°-60°)	3127.3	8.1	B3/5000		
BH (60°-80°)	2075.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	294.3	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





REPORT NUMBER: P383343

CATALOG NUMBER: GLEON-SA6C-735-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4757.8	4757.8	4757.8	4757.8	4757.8	4757.8	4757.8	4757.8	4757.8	4757.8	4757.8
2.5°	5255.8	5247.9	5219.8	5219.8	5166.6	5121.4	5036.1	4978.8	4910.9	4887.0	4807.1
5°	5764.5	5767.2	5732.6	5708.6	5630.0	5534.1	5389.0	5257.2	5125.4	5072.1	4908.3
7.5°	6191.9	6186.6	6177.3	6157.3	6084.1	5985.6	5789.8	5594.0	5399.6	5319.8	5037.4
10°	6466.2	6478.3	6486.3	6495.6	6464.9	6394.3	6209.2	5970.9	5716.5	5607.4	5191.9
12.5°	6604.8	6626.0	6663.4	6727.3	6777.8	6769.8	6635.4	6382.4	6080.1	5942.9	5385.0
15°	6686.0	6713.9	6772.5	6887.0	7029.6	7110.8	7074.8	6845.8	6508.9	6339.7	5620.7
17.5°	6736.6	6759.2	6849.8	7002.9	7214.6	7430.3	7524.9	7333.1	6993.6	6800.5	5891.0
20°	6771.2	6788.5	6901.6	7081.4	7355.8	7699.3	7963.0	7915.1	7527.6	7277.2	6173.3
22.5°	6848.5	6863.1	6971.0	7152.0	7455.6	7899.1	8385.1	8457.0	8090.8	7807.2	6475.6
25°	7064.1	7064.1	7154.7	7281.2	7566.1	8072.1	8741.9	9060.2	8666.1	8335.9	6755.2
27.5°	7475.6	7471.6	7504.9	7548.9	7764.5	8247.9	9060.2	9592.9	9262.7	8901.8	7026.8
30°	7963.0	7989.6	7993.6	7972.3	8073.5	8467.7	9354.5	10154.8	9863.1	9474.3	7305.2
32.5°	8590.2	8607.5	8587.5	8517.0	8502.2	8779.3	9643.5	10743.4	10513.0	10072.3	7559.5
35°	9386.5	9353.2	9290.6	9146.8	9009.6	9196.1	9973.7	11331.9	11242.8	10795.3	7909.7
37.5°	10240.0	10241.3	10164.1	9837.9	9648.8	9728.7	10429.1	11999.1	12125.6	11655.5	8358.5
40°	10924.4	10960.4	11008.4	10579.6	10334.6	10445.1	11008.4	12772.7	13169.6	12675.5	8943.0
42.5°	11402.5	11443.8	11579.6	11310.7	11056.3	11261.4	11690.1	13598.4	14341.4	13852.7	9627.5
45°	11908.5	11931.2	12027.0	11911.1	11748.7	12210.8	12458.4	14453.2	15581.1	15107.0	10393.2
47.5°	12441.2	12465.1	12563.7	12486.5	12401.2	13097.7	13260.1	15258.8	16768.9	16485.2	11210.7
50°	13099.0	13115.0	13208.1	13068.3	13095.0	13766.1	13976.5	15997.8	18013.9	17723.6	12031.0
52.5°	13996.5	14000.4	14129.6	14003.1	13877.9	14256.1	14593.1	16694.3	18990.0	18852.8	12851.3
55°	14699.5	14742.2	15165.6	15139.0	15067.0	14700.8	15108.3	17357.4	19860.9	19926.1	13722.2
57.5°	14250.8	14417.3	15274.8	15879.3	16467.9	15807.4	15804.8	18104.4	20670.5	20979.4	14679.6
60°	12481.1	12707.4	13971.2	15312.1	17153.7	17732.9	17250.9	19016.6	21488.0	22023.4	15879.3
62.5°	8913.7	9286.6	10999.1	13140.2	16213.6	19008.6	20193.7	20464.1	22599.9	23232.4	17438.7
65°	4506.2	4788.4	6223.9	8803.2	12953.8	18175.1	23392.3	23633.3	24532.1	25094.0	19839.5
67.5°	2737.8	2844.3	3544.7	4896.3	7941.6	14157.6	24436.3	28915.7	28271.3	28569.5	23263.1
70°	2017.4	2096.0	2532.7	3251.8	4567.4	8307.8	21232.4	32685.5	32262.0	32228.8	25793.2
72°	1571.3	1628.5	2014.8	2627.2	3339.7	4984.2	15389.4	31293.9	33404.6	33236.8	25561.4
72.5°	1490.1	1540.7	1892.2	2472.8	3155.9	4518.1	13836.6	30355.2	33322.0	33246.1	25261.8
75°	1173.1	1209.1	1400.9	1912.2	2470.1	2563.3	7582.1	23524.1	29560.2	30789.3	22721.1
77.5°	970.8	976.1	1077.2	1391.5	1925.5	1812.3	3724.5	16321.5	21167.2	22518.7	16095.1
80°	791.0	797.6	845.6	976.1	1456.8	1341.0	1768.4	9385.2	11851.2	11865.9	7654.1
82.5°	629.8	631.2	684.4	713.8	1046.6	958.7	1013.3	4406.3	5178.6	4981.5	2751.0
85°	443.4	434.1	668.5	585.9	684.4	615.2	559.3	1744.4	2141.3	2048.0	861.6
87.5°	147.8	153.1	297.0	379.5	399.4	348.9	249.0	668.5	808.3	801.6	272.9
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: P383343
 CATALOG NUMBER: GLEON-SA6C-735-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4757.8	4757.8	4757.8	4757.8	4757.8	4757.8	4757.8	4757.8	4757.8	4757.8	4757.8
2.5°	4781.8	4739.2	4676.6	4607.3	4552.8	4496.9	4455.5	4434.3	4410.2	4390.3	4414.2
5°	4832.4	4752.5	4619.4	4488.8	4393.0	4307.8	4246.5	4214.5	4185.3	4165.2	4167.9
7.5°	4914.9	4785.7	4562.1	4371.7	4238.4	4146.6	4084.0	4062.8	4044.0	4038.7	4045.4
10°	5002.8	4812.4	4486.1	4233.1	4081.4	4005.5	3977.5	3992.1	4005.5	4017.5	4030.7
12.5°	5102.7	4836.4	4375.7	4070.7	3941.6	3912.2	3940.2	4004.2	4050.7	4078.7	4096.0
15°	5233.2	4857.6	4247.8	3908.2	3821.7	3855.0	3949.6	4060.1	4141.3	4193.2	4201.2
17.5°	5353.0	4856.3	4084.0	3744.4	3724.5	3821.7	3964.2	4120.0	4229.1	4302.4	4317.1
20°	5476.8	4820.4	3893.6	3584.7	3626.0	3785.7	3970.8	4158.6	4290.4	4375.7	4395.6
22.5°	5592.7	4757.8	3684.6	3439.6	3543.4	3737.8	3945.6	4136.0	4267.8	4337.0	4358.3
25°	5671.3	4648.6	3472.8	3317.1	3470.1	3679.2	3862.9	4016.1	4114.6	4149.3	4154.6
27.5°	5711.2	4506.2	3273.1	3210.5	3394.3	3583.4	3709.9	3785.7	3813.7	3811.1	3805.7
30°	5716.5	4318.4	3101.3	3123.9	3306.3	3442.2	3502.2	3487.4	3451.5	3390.3	3395.6
32.5°	5699.2	4106.6	2957.5	3041.4	3194.6	3270.4	3273.1	3202.5	3106.6	3009.5	2982.8
35°	5704.6	3898.9	2831.0	2948.2	3058.6	3092.0	3061.3	2957.5	2827.0	2701.9	2675.2
37.5°	5763.2	3717.8	2721.8	2840.3	2908.2	2916.2	2872.2	2763.1	2667.2	2544.7	2534.0
40°	5903.0	3588.7	2617.9	2719.1	2757.8	2761.8	2699.2	2621.9	2629.9	2564.6	2563.3
42.5°	6154.6	3532.7	2526.1	2592.6	2616.6	2624.5	2576.7	2527.4	2596.6	2554.0	2539.4
45°	6479.6	3546.0	2448.9	2468.8	2512.8	2550.0	2520.8	2460.8	2487.4	2302.3	2241.1
47.5°	6855.1	3631.3	2387.6	2362.2	2438.1	2508.8	2463.5	2372.9	2278.4	2094.6	2060.0
50°	7294.5	3763.1	2331.7	2257.0	2356.9	2452.8	2407.5	2278.4	2135.9	2046.7	2034.7
52.5°	7752.6	3924.2	2275.7	2141.3	2254.4	2410.2	2387.6	2257.0	2081.3	1993.4	1977.4
55°	8271.9	4086.7	2205.2	2006.7	2143.9	2390.3	2378.2	2179.8	2040.0	1990.7	1978.8
57.5°	8917.7	4271.8	2111.9	1866.9	2040.0	2318.3	2281.0	2133.2	1997.4	1960.2	1956.2
60°	9759.3	4544.7	1977.4	1717.8	1913.5	2207.8	2199.8	2065.3	1929.5	1902.9	1897.6
62.5°	11021.7	4996.2	1792.3	1568.6	1772.4	2020.1	2093.3	1973.4	1857.6	1856.3	1858.9
65°	12979.2	5675.3	1591.3	1438.1	1629.8	1861.6	1969.5	1878.9	1784.4	1811.0	1814.9
67.5°	15248.1	6238.6	1394.2	1310.3	1484.7	1711.1	1857.6	1784.4	1687.1	1756.3	1757.7
70°	16003.1	5735.2	1221.1	1183.8	1334.3	1565.9	1736.4	1680.5	1582.0	1651.2	1644.6
72°	14892.7	4630.0	1109.2	1088.0	1221.1	1446.1	1628.5	1583.3	1486.1	1532.7	1515.3
72.5°	14542.4	4414.2	1081.2	1063.9	1190.4	1415.5	1600.6	1559.3	1462.1	1502.0	1486.1
75°	12972.5	3833.7	929.5	933.4	1038.7	1266.3	1443.4	1430.1	1330.2	1334.3	1328.9
77.5°	9409.1	2811.0	783.0	809.6	884.2	1113.2	1285.0	1277.0	1167.8	1147.9	1143.8
80°	4366.3	1434.1	637.8	649.8	727.1	930.8	1095.9	1085.3	997.4	972.1	957.4
82.5°	1495.4	681.8	479.4	487.4	563.3	749.7	950.7	944.1	870.9	821.6	791.0
85°	534.0	339.5	335.5	327.5	402.1	589.9	828.2	792.3	684.4	583.2	580.5
87.5°	173.1	145.1	173.1	171.8	234.4	399.4	601.9	512.6	496.7	412.8	404.9
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)