

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: P383306

Luminaire Tested: **GLEON-SA6B-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6B-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27202.1 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

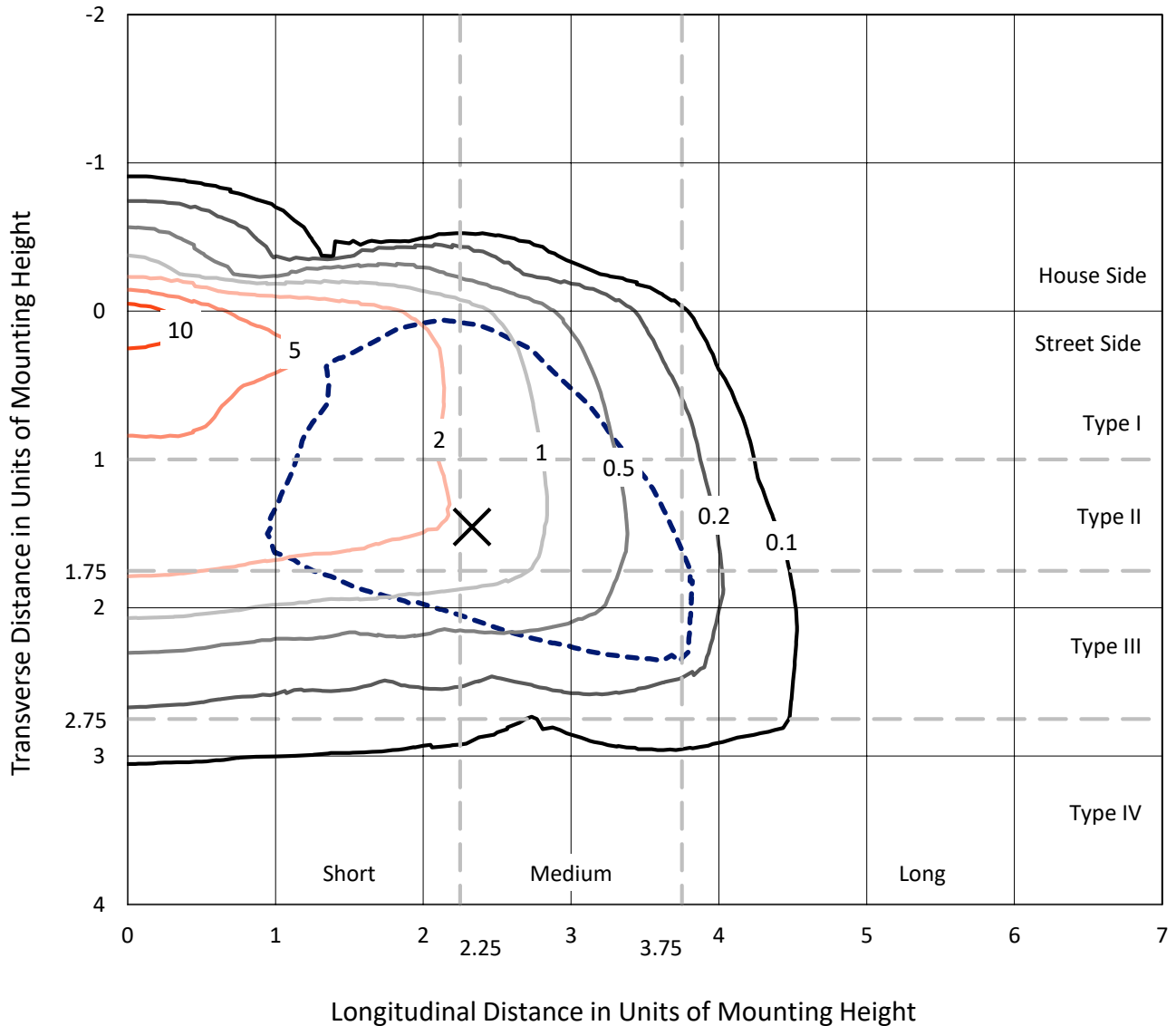
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383306
 CATALOG NUMBER: GLEON-SA6B-735-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

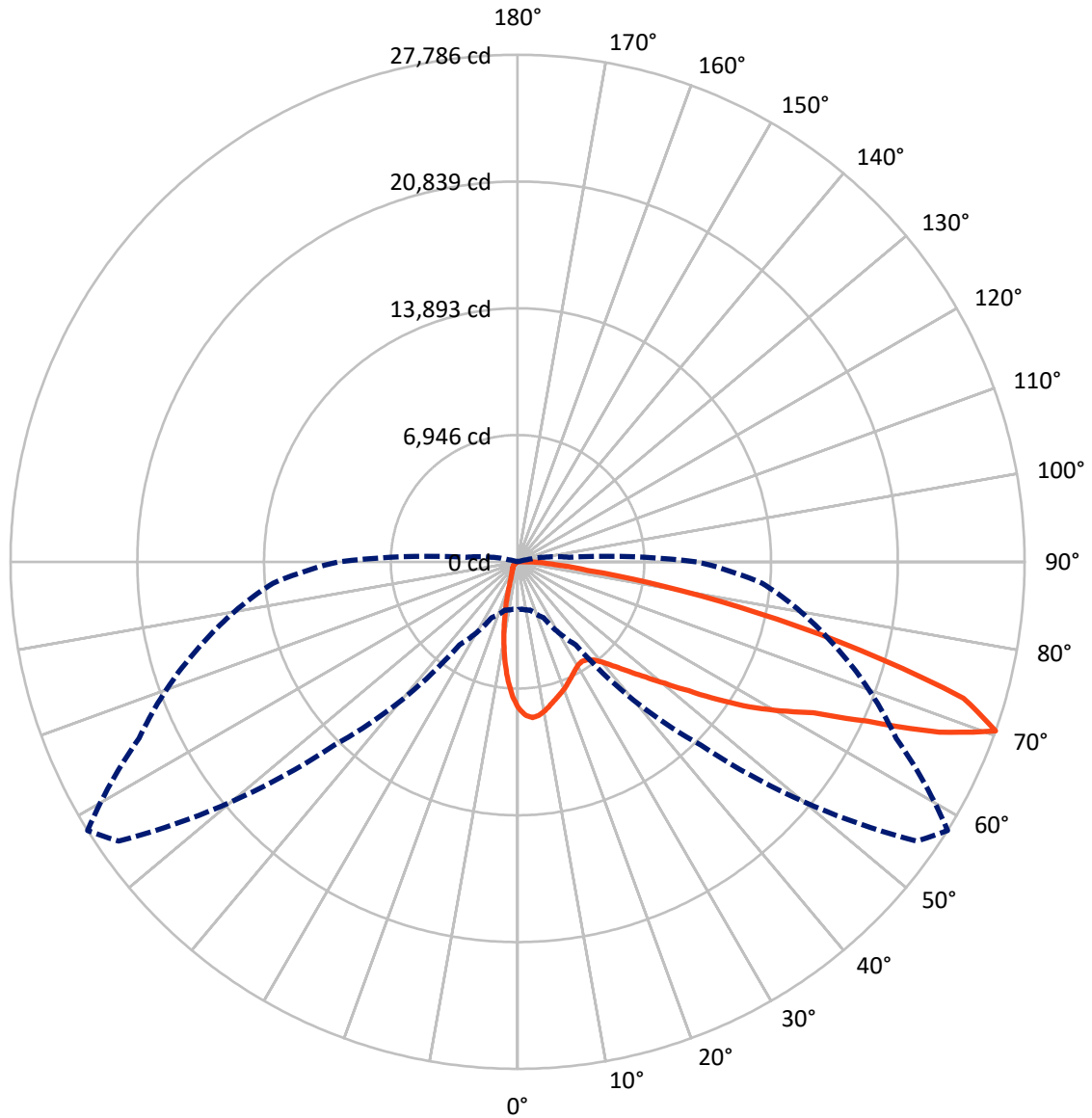
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P383306
CATALOG NUMBER: GLEON-SA6B-735-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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 CATALOG NUMBER: GLEON-SA6B-735-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2327.9	0.0	2327.9
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	24874.2	0.0	24874.2
	% Fixture	91.4	0.0	91.4
Total	Lumens	27202.1	0.0	27202.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.1	2.4
10°-20°	1379.1	5.1
20°-30°	1813.0	6.7
30°-40°	2401.1	8.8
40°-50°	3588.9	13.2
50°-60°	5749.3	21.1
60°-70°	7247.0	26.6
70°-80°	3909.0	14.4
80°-90°	457.6	1.7
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°	27202.1	100.0
0°-180°	27202.1	100.0

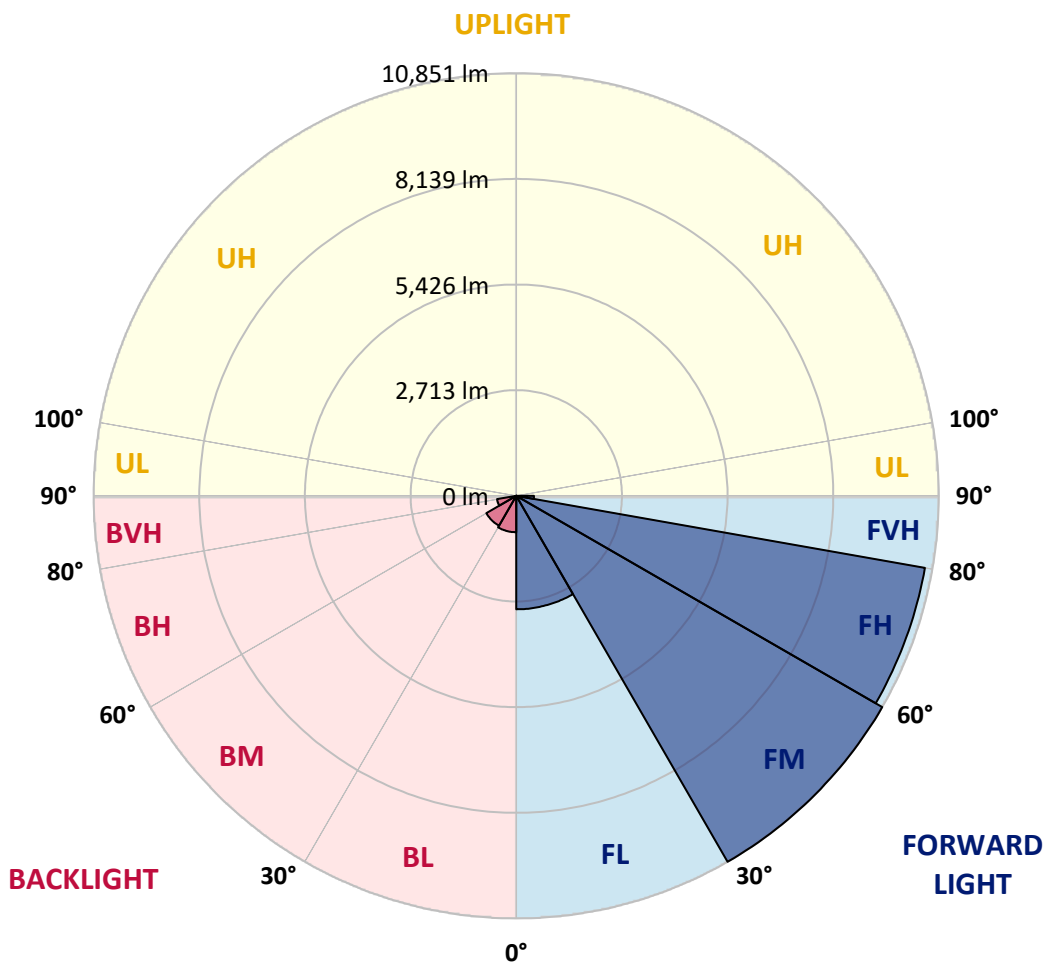


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2913.9	10.7			
FM (30°-60°)	10851.3	39.9			
FH (60°-80°)	10655.4	39.2			G4/12000
FVH (80°-90°)	453.6	1.7			G3/500
BL (0°-30°)	935.3	3.4	B2/1000		
BM (30°-60°)	888.1	3.3	B1/1000		
BH (60°-80°)	500.6	1.8	B2/1000		G2/1000
BVH (80°-90°)	4.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





REPORT NUMBER: P383306

CATALOG NUMBER: GLEON-SA6B-735-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8035.3	8035.3	8035.3	8035.3	8035.3	8035.3	8035.3	8035.3	8035.3	8035.3	8035.3
2.5°	8701.6	8680.1	8672.1	8658.6	8606.6	8555.7	8455.0	8426.8	8363.4	8213.0	8053.5
5°	8708.4	8707.3	8731.0	8725.3	8707.3	8683.5	8611.1	8573.8	8466.4	8251.5	7959.6
7.5°	8288.7	8310.2	8363.4	8406.4	8456.1	8520.6	8529.7	8493.5	8405.3	8173.4	7786.5
10°	7725.4	7759.4	7834.0	7918.9	8048.9	8177.9	8293.3	8288.7	8258.2	8029.8	7578.4
12.5°	7161.0	7200.6	7286.6	7412.1	7596.5	7806.9	8012.8	8041.0	8091.9	7900.7	7386.1
15°	6666.7	6700.7	6785.5	6939.4	7167.8	7450.6	7752.6	7804.6	7935.9	7800.1	7225.5
17.5°	6247.1	6268.6	6330.8	6501.6	6766.3	7109.0	7501.5	7603.3	7799.0	7720.9	7086.4
20°	5954.2	5957.5	5998.2	6118.1	6382.9	6766.3	7241.4	7387.3	7654.2	7653.0	6942.7
22.5°	5809.3	5798.0	5806.0	5875.0	6069.5	6439.4	6981.2	7154.3	7524.1	7595.4	6796.9
25°	5782.2	5773.2	5750.5	5759.6	5877.2	6153.2	6718.8	6919.0	7409.9	7560.3	6670.2
27.5°	5867.1	5876.1	5837.6	5796.9	5806.0	5967.7	6485.8	6717.7	7317.1	7560.3	6580.7
30°	6037.8	6042.4	6014.1	5961.0	5889.7	5915.7	6324.0	6555.9	7270.7	7612.3	6524.2
32.5°	6226.7	6251.6	6248.3	6205.2	6103.4	5998.2	6285.5	6497.1	7267.4	7727.7	6518.6
35°	6460.8	6489.2	6536.7	6527.6	6421.3	6248.3	6416.8	6583.1	7334.1	7917.8	6579.6
37.5°	6709.8	6752.7	6854.5	6903.1	6834.1	6638.5	6710.9	6829.6	7512.8	8225.4	6734.6
40°	6950.6	6999.3	7184.7	7375.9	7323.9	7122.6	7156.5	7251.5	7830.7	8667.7	7028.7
42.5°	7187.1	7259.5	7532.0	7846.5	7908.7	7748.1	7766.2	7842.0	8302.3	9276.2	7509.4
45°	7469.8	7551.2	7955.0	8343.0	8509.3	8439.2	8516.1	8565.9	8918.7	10080.5	8157.6
47.5°	7884.9	7978.8	8474.3	8916.5	9208.3	9253.6	9408.5	9441.3	9698.1	11016.9	9002.5
50°	8694.8	8720.9	9168.8	9570.3	9991.0	10262.5	10439.0	10463.9	10641.4	12040.6	10057.8
52.5°	9713.9	9730.9	9984.2	10253.5	10731.9	11286.2	11699.0	11734.1	11771.4	13038.2	11099.6
55°	10726.3	10724.0	10891.4	11049.7	11597.2	12402.6	13298.4	13319.9	13051.8	13985.0	11895.9
57.5°	11358.5	11419.7	11674.2	11877.8	12642.4	13675.1	14918.2	14997.4	14396.7	14686.3	12683.1
60°	11157.2	11186.7	11751.1	12504.3	13944.2	15483.7	16557.1	16577.4	15407.9	15386.5	13678.5
62.5°	9505.8	9521.6	10408.5	11961.4	14603.7	17829.6	18534.4	18202.9	16570.7	16358.1	14869.5
65°	6515.2	6618.1	7358.9	9278.5	13392.3	19301.2	21595.0	21046.5	18343.1	17758.4	15946.3
67.5°	3836.7	3815.2	4181.7	5595.6	9836.1	18323.9	25466.8	24921.7	20760.3	18696.1	15630.7
70°	2620.8	2606.1	2746.3	3387.7	5552.6	14214.6	26685.0	27785.6	22894.7	18064.9	13452.2
72.5°	1870.8	1878.7	2085.7	2632.1	3486.0	8281.9	22947.8	25552.8	22226.3	15748.4	10225.2
75°	1270.3	1291.7	1588.1	2159.3	3056.2	4213.4	16284.6	19424.4	18098.9	11445.6	5877.2
77.5°	683.2	707.0	1056.5	1739.7	2763.2	2927.3	10475.2	13368.5	11368.8	5145.4	1703.4
80°	285.1	298.7	494.3	1264.6	2387.7	2571.0	6163.4	8106.6	4844.5	1014.6	380.1
82.5°	123.3	130.0	205.9	754.5	1784.8	2170.6	3263.2	3900.0	1468.2	222.8	191.2
85°	23.8	24.9	84.9	399.3	1139.0	1225.0	2115.2	2073.3	659.4	96.1	139.1
87.5°	0.0	0.0	20.4	125.6	334.8	667.4	1290.6	1274.7	223.9	46.4	52.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: GLEON-SA6B-735-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8035.3	8035.3	8035.3	8035.3	8035.3	8035.3	8035.3	8035.3	8035.3	8035.3	8035.3
2.5°	7972.0	7894.0	7730.0	7527.6	7372.5	7201.8	7066.0	6894.1	6819.4	6822.8	6782.1
5°	7793.3	7632.7	7269.6	6811.5	6458.6	6094.4	5781.1	5468.9	5284.5	5224.6	5168.0
7.5°	7537.7	7283.2	6704.1	5998.2	5401.0	4817.4	4309.5	3862.8	3579.9	3442.0	3391.0
10°	7249.3	6891.9	6053.7	5123.9	4271.1	3481.6	2823.2	2250.9	2022.4	1867.5	1827.9
12.5°	6995.9	6511.8	5418.0	4226.9	3214.6	2262.2	1634.5	1278.2	1123.2	1062.2	1051.9
15°	6757.3	6156.6	4806.0	3414.8	2226.0	1392.4	1039.5	918.4	882.3	872.1	872.1
17.5°	6532.1	5818.4	4207.7	2615.1	1472.7	976.2	860.7	833.6	822.3	821.2	822.3
20°	6296.9	5480.2	3619.5	1916.1	1028.1	826.8	795.2	780.5	777.1	777.1	777.1
22.5°	6071.7	5142.0	3047.2	1368.6	824.6	754.5	738.6	728.5	725.0	723.9	721.7
25°	5855.7	4820.8	2488.4	967.1	723.9	691.1	677.5	663.9	653.8	648.1	644.7
27.5°	5678.2	4534.6	1968.1	776.0	653.8	625.5	608.6	588.2	563.3	551.9	547.5
30°	5536.7	4273.3	1516.8	654.9	588.2	559.9	533.9	498.8	462.6	443.4	442.3
32.5°	5425.9	4016.6	1151.5	579.1	529.4	494.3	456.9	412.9	371.0	349.5	348.4
35°	5371.6	3790.4	880.0	523.7	477.3	433.2	386.9	338.2	297.4	277.1	274.9
37.5°	5407.8	3599.2	686.6	477.3	433.2	382.3	328.0	277.1	240.9	222.8	221.7
40°	5540.2	3477.0	557.6	437.7	395.9	333.7	274.9	227.4	196.8	182.1	181.0
42.5°	5821.8	3431.8	476.2	404.9	359.7	288.4	228.5	187.8	159.5	149.3	147.0
45°	6292.3	3498.5	420.8	373.3	322.4	245.5	188.9	153.8	128.9	121.0	119.9
47.5°	6919.0	3673.8	381.2	342.7	288.4	207.0	157.2	124.5	105.2	97.3	96.1
50°	7726.6	3952.1	348.4	312.2	256.7	175.3	130.0	98.4	81.4	75.8	75.8
52.5°	8605.5	4283.5	319.0	283.9	225.1	145.9	105.2	75.8	64.5	57.7	57.7
55°	9331.6	4573.1	287.3	262.4	186.6	121.0	80.3	57.7	47.5	44.2	44.2
57.5°	10056.7	4881.9	251.1	225.1	149.3	98.4	61.1	42.9	35.0	32.8	32.8
60°	10996.6	5259.6	216.0	183.2	117.7	74.6	45.3	30.6	26.0	24.9	24.9
62.5°	12030.5	5481.3	184.4	147.0	91.7	55.4	32.8	20.4	19.2	19.2	18.1
65°	12662.7	5168.0	154.9	117.7	71.3	41.8	21.5	14.7	17.0	15.8	13.6
67.5°	11856.3	4046.0	126.7	91.7	55.4	31.7	13.6	10.2	18.1	14.7	11.3
70°	9816.8	2832.3	98.4	64.5	44.2	27.1	9.0	6.8	19.2	14.7	9.0
72.5°	7346.6	1895.7	78.1	42.9	32.8	23.8	7.9	3.4	17.0	12.5	7.9
75°	4014.3	763.5	62.2	27.1	20.4	17.0	5.7	2.2	11.3	9.0	5.7
77.5°	1056.5	201.3	45.3	18.1	11.3	6.8	3.4	1.1	5.7	4.6	2.2
80°	269.2	78.1	29.4	12.5	7.9	3.4	0.0	0.0	1.1	0.0	0.0
82.5°	143.6	32.8	18.1	9.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	108.6	21.5	10.2	5.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	41.8	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)