

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: P383678

Luminaire Tested: **GLEON-SA9C-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9C-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41904.8 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

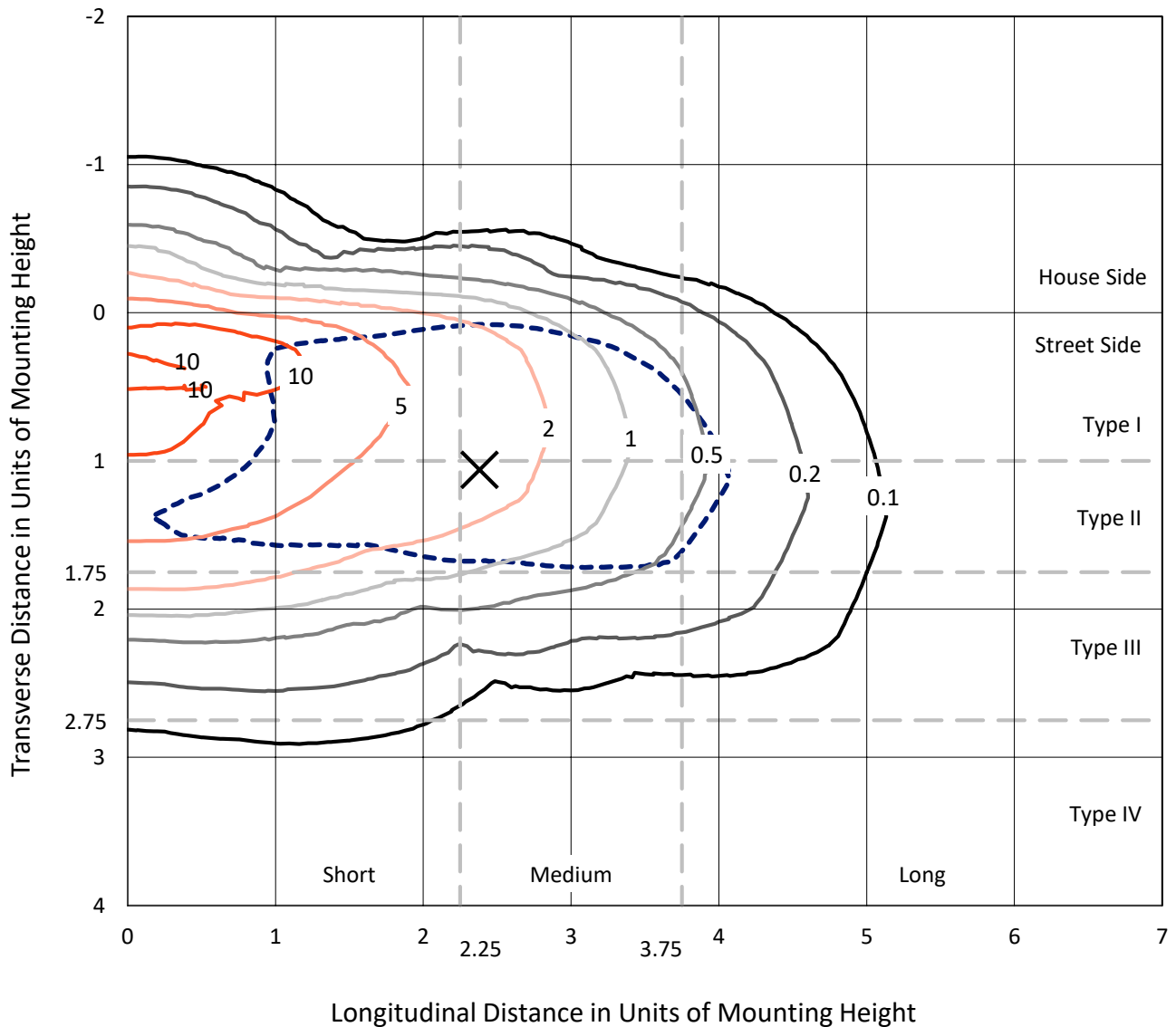
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GLEON-SA9C-735-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

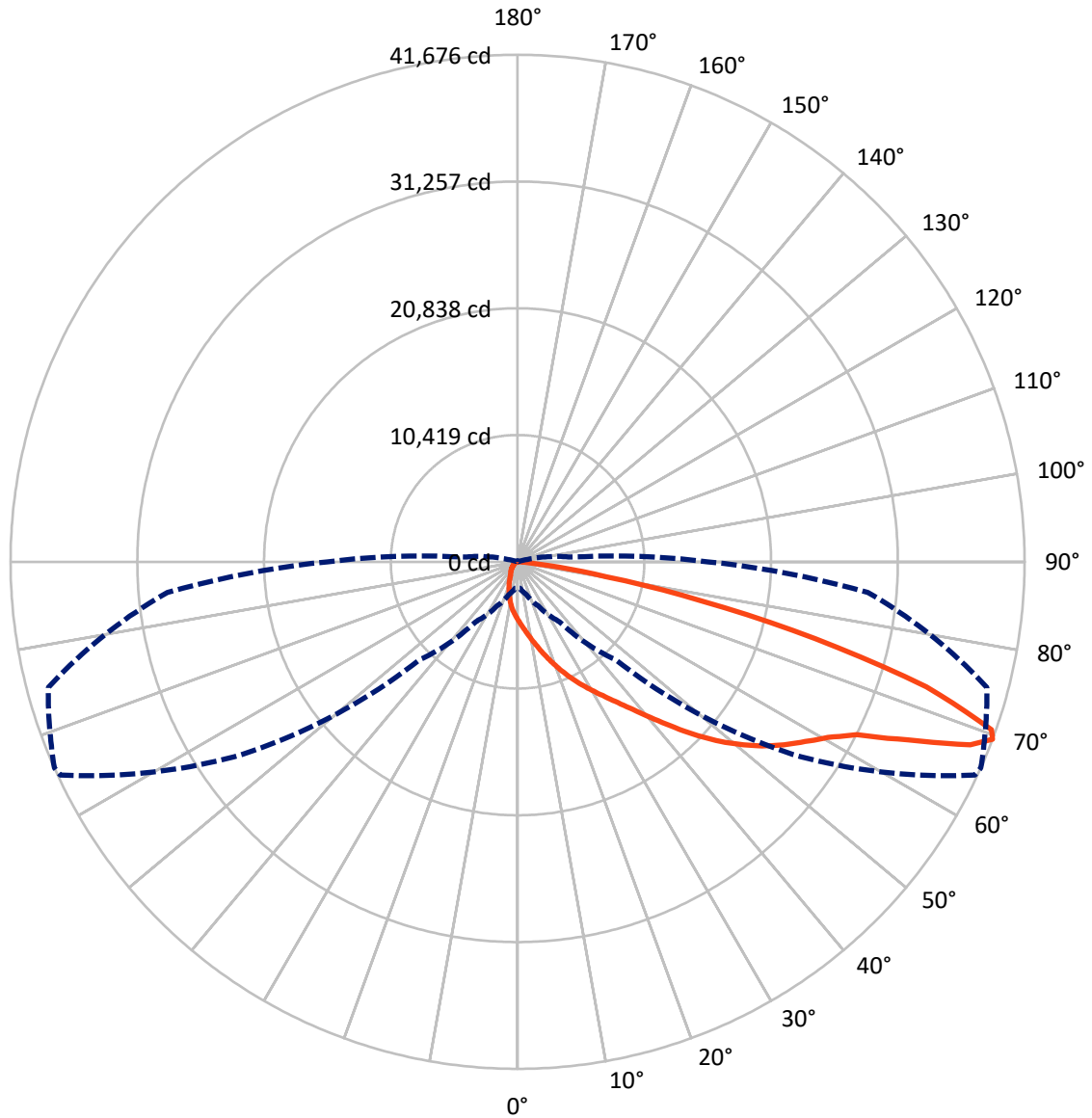
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Medium - N/A

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CATALOG NUMBER: GLEON-SA9C-735-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2513.7	0.0	2513.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	39391.0	0.0	39391.0
	% Fixture	94.0	0.0	94.0
Total	Lumens	41904.8	0.0	41904.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.0	1.1
10°-20°	1372.0	3.3
20°-30°	2389.1	5.7
30°-40°	4191.6	10.0
40°-50°	7016.1	16.7
50°-60°	10313.0	24.6
60°-70°	10588.9	25.3
70°-80°	5227.4	12.5
80°-90°	345.6	0.8
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°	41904.8	100.0
0°-180°	41904.8	100.0

Coefficient of Utilization

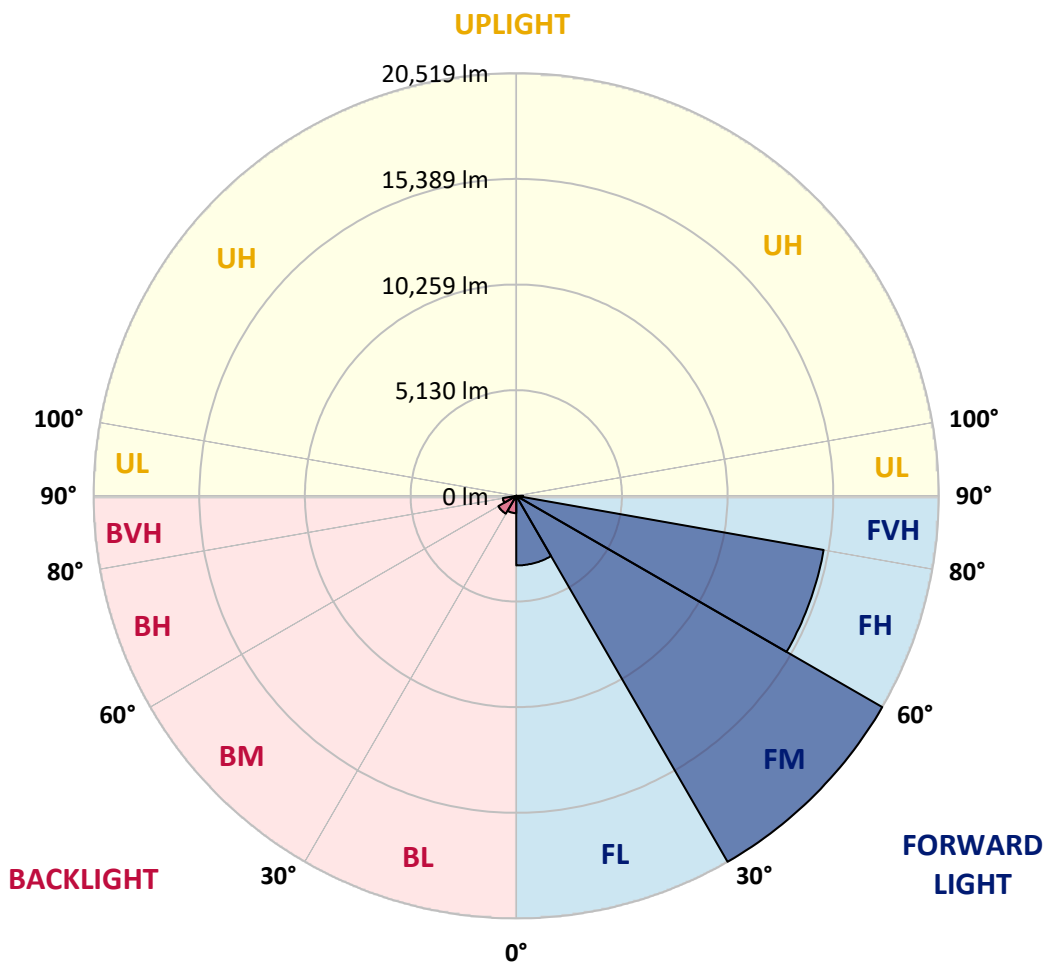


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3381.3	8.1			
FM (30°-60°)	20518.6	49.0			
FH (60°-80°)	15153.9	36.2			G5
FVH (80°-90°)	337.3	0.8			G3/500
BL (0°-30°)	840.7	2.0	B2/1000		
BM (30°-60°)	1002.2	2.4	B2/2500		
BH (60°-80°)	662.4	1.6	B2/1000		G2/1000
BVH (80°-90°)	8.4	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-G5
 Type II Medium





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CATALOG NUMBER: GLEON-SA9C-735-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9
2.5°	5612.8	5588.9	5578.9	5535.2	5459.5	5401.9	5290.4	5161.0	5137.1	5011.7	4858.5
5°	6341.2	6321.4	6307.4	6245.7	6168.1	6022.8	5819.8	5578.9	5533.2	5294.4	4987.9
7.5°	6848.8	6884.6	6884.6	6844.8	6747.3	6637.8	6389.0	6060.6	6002.9	5636.7	5161.0
10°	7145.3	7189.1	7223.0	7256.8	7242.9	7199.1	6964.2	6594.1	6524.4	6038.8	5362.0
12.5°	7173.3	7217.1	7312.6	7453.9	7591.2	7690.8	7543.5	7185.2	7105.6	6504.4	5600.8
15°	7018.0	7063.7	7211.0	7485.7	7818.1	8108.7	8156.4	7840.0	7758.4	7059.8	5899.4
17.5°	6747.3	6777.2	6988.1	7368.3	7889.7	8423.1	8711.8	8542.6	8466.9	7694.7	6231.8
20°	6546.3	6568.2	6753.3	7161.3	7846.0	8620.3	9237.2	9289.0	9209.4	8375.5	6592.1
22.5°	6890.7	6930.4	6936.4	7129.4	7726.5	8717.8	9699.0	10023.5	9963.7	9098.0	6946.4
25°	7832.1	7877.8	7726.5	7607.1	7828.1	8761.6	10095.1	10775.8	10728.0	9876.2	7302.6
27.5°	9076.1	9123.8	8928.7	8572.5	8359.5	8926.7	10447.4	11540.1	11538.1	10700.1	7686.8
30°	10298.1	10345.9	10146.9	9790.6	9300.9	9394.5	10751.9	12340.2	12352.1	11550.1	8094.8
32.5°	11579.9	11639.6	11434.6	10976.8	10465.3	10202.6	11179.9	13144.3	13212.0	12535.3	8554.6
35°	13036.8	13044.8	12756.1	12276.5	11687.4	11283.4	11866.5	14046.0	14207.1	13755.3	9137.7
37.5°	14465.9	14523.7	14286.8	13530.4	12989.0	12531.3	12887.6	15172.5	15401.4	15246.2	9900.0
40°	15524.8	15646.2	15612.4	14796.3	14282.8	13956.4	14155.4	16512.0	16802.6	16981.7	10861.4
42.5°	16189.6	16281.1	16436.3	15944.7	15479.0	15532.7	15652.1	18072.4	18430.7	18960.2	11966.0
45°	16951.8	16995.6	17125.0	16908.1	16593.6	17135.0	17240.4	19829.9	20206.1	21087.8	13192.1
47.5°	17883.4	17986.9	18022.7	17823.7	17680.3	18552.1	18771.1	21428.2	21955.6	23366.8	14489.8
50°	19069.6	19097.5	19159.1	19029.8	18886.5	19770.2	20144.4	23106.0	23585.8	25653.7	15769.6
52.5°	20230.0	20329.5	20544.4	20462.8	20405.2	20807.1	21368.5	24618.8	25154.1	27560.5	17047.4
55°	20564.4	20650.0	21392.3	21899.8	22369.6	22085.0	22538.8	25974.2	26553.3	29264.2	18277.4
57.5°	19228.8	19402.0	20687.8	22009.4	23957.9	24071.4	24147.0	27365.4	27884.9	30569.9	19557.3
60°	15853.2	15887.0	17996.8	20263.9	23695.2	25805.0	26495.6	28860.2	29296.1	31786.0	21089.8
62.5°	10083.2	10427.5	12742.3	15942.8	20916.7	25554.2	29335.8	31121.2	31280.4	33244.9	23287.2
65°	4802.7	5025.6	6693.5	9850.3	15150.6	22343.7	31296.4	35211.4	35283.0	36136.9	26223.0
67.5°	2659.1	2766.6	3560.7	5302.3	8857.1	15801.5	30504.2	40055.9	40123.6	39090.6	28798.4
69°	2080.0	2171.4	2796.4	3996.6	6004.9	11357.0	27604.3	41475.0	41676.0	39936.5	28890.0
70°	1765.5	1855.0	2408.3	3375.6	4828.6	8775.5	24571.0	41122.8	41335.7	39856.9	28207.4
72.5°	1080.8	1132.5	1604.2	2376.5	3236.3	4414.6	15152.6	34777.5	35137.8	36560.8	24242.5
75°	728.5	756.3	1003.2	1640.1	2314.8	2273.0	7871.9	24513.2	25293.5	28440.2	17905.3
77.5°	521.5	547.4	672.8	1060.8	1622.1	1500.7	3564.8	15234.2	15401.4	17057.4	9764.7
80°	296.6	320.5	475.7	630.9	1100.6	1001.1	1417.2	7276.8	7360.3	7314.6	3260.2
82.5°	155.3	175.1	260.7	416.0	706.6	654.8	589.1	2436.2	2448.1	2036.2	714.5
85°	29.8	35.9	129.4	284.6	364.2	284.6	240.8	571.2	583.1	515.5	177.2
87.5°	0.0	2.0	51.8	63.7	71.6	73.7	77.6	111.5	119.4	161.3	47.8
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9	4768.9
2.5°	4790.8	4719.1	4581.8	4422.6	4299.2	4177.7	4082.2	3982.7	3946.9	3929.0	3926.9
5°	4838.6	4687.3	4396.7	4098.2	3853.3	3622.4	3457.3	3300.0	3226.3	3192.5	3178.6
7.5°	4918.2	4675.3	4207.6	3751.8	3399.5	3110.9	2882.0	2710.9	2625.3	2589.4	2575.5
10°	5011.7	4659.4	3986.7	3385.6	2935.8	2637.2	2410.3	2241.1	2147.6	2107.8	2087.9
12.5°	5121.2	4631.6	3731.9	3015.4	2539.7	2241.1	1966.5	1757.5	1650.1	1604.2	1582.3
15°	5256.5	4603.7	3465.2	2667.1	2191.4	1827.1	1526.6	1385.3	1363.4	1355.4	1357.5
17.5°	5389.8	4559.9	3174.6	2322.7	1825.2	1427.1	1273.8	1265.9	1269.9	1269.9	1269.9
20°	5509.3	4460.3	2858.2	2028.2	1476.9	1204.2	1172.4	1158.4	1148.4	1140.5	1130.5
22.5°	5602.9	4327.0	2553.7	1735.6	1206.2	1102.7	1052.9	1009.1	973.3	949.4	937.4
25°	5666.5	4149.9	2274.9	1455.0	1084.8	1003.2	913.6	840.0	784.2	750.4	736.4
27.5°	5714.3	3958.8	2026.2	1218.1	1001.1	887.7	770.3	682.7	625.0	595.1	583.1
30°	5748.1	3741.8	1807.2	1070.8	907.6	766.3	640.9	555.3	513.5	497.6	489.6
32.5°	5780.0	3501.0	1600.2	1001.1	820.0	654.8	537.4	471.7	445.8	425.9	419.9
35°	5859.6	3278.1	1403.2	927.5	730.4	559.3	461.8	414.0	388.1	376.2	372.2
37.5°	6048.7	3113.0	1214.1	851.9	640.9	483.7	404.0	370.2	346.3	334.4	330.4
40°	6353.2	3029.3	1054.9	770.3	553.3	425.9	366.2	334.4	308.5	290.5	286.6
42.5°	6801.0	3041.2	943.5	688.7	483.7	380.2	330.4	292.6	264.7	248.8	244.8
45°	7344.4	3128.9	865.8	609.0	425.9	344.3	290.5	250.8	224.9	211.0	207.0
47.5°	7933.5	3270.2	802.2	537.4	380.2	310.5	250.8	208.9	187.1	175.1	173.2
50°	8554.6	3407.5	736.4	467.7	340.4	276.7	211.0	173.2	155.3	145.3	141.3
52.5°	9183.5	3566.7	676.7	404.0	306.5	236.9	175.1	141.3	127.3	119.4	115.4
55°	9860.2	3686.1	619.0	354.3	272.7	201.0	145.3	117.5	105.5	95.6	93.5
57.5°	10656.3	3871.2	559.3	306.5	232.9	167.2	119.4	93.5	83.6	73.7	71.6
60°	11731.2	4088.2	495.6	270.7	191.1	137.3	97.5	75.6	63.7	55.7	53.8
62.5°	13148.3	4329.0	416.0	236.9	155.3	111.5	77.6	59.7	45.7	35.9	35.9
65°	14945.6	4721.1	340.4	199.1	127.3	91.6	59.7	43.8	25.9	15.9	15.9
67.5°	15994.5	4788.8	274.7	163.2	103.5	77.6	49.7	29.8	7.9	2.0	0.0
69°	15658.1	4396.7	232.9	139.4	89.5	73.7	45.7	21.9	4.0	0.0	0.0
70°	15025.2	4020.6	205.0	123.4	81.6	69.7	43.8	15.9	4.0	0.0	0.0
72.5°	12415.9	2862.1	155.3	91.6	59.7	61.7	39.8	10.0	4.0	0.0	0.0
75°	9044.2	1739.6	111.5	63.7	37.8	45.7	27.9	4.0	2.0	0.0	0.0
77.5°	5031.7	820.0	69.7	35.9	23.8	27.9	14.0	0.0	0.0	0.0	0.0
80°	1634.1	222.9	31.9	19.9	14.0	15.9	6.0	0.0	0.0	0.0	0.0
82.5°	302.6	63.7	17.9	10.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0
85°	65.7	25.9	10.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.9	7.9	2.0	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)