

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: P382636

Luminaire Tested: **GLEON-SA0B-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0B-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42765.5 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

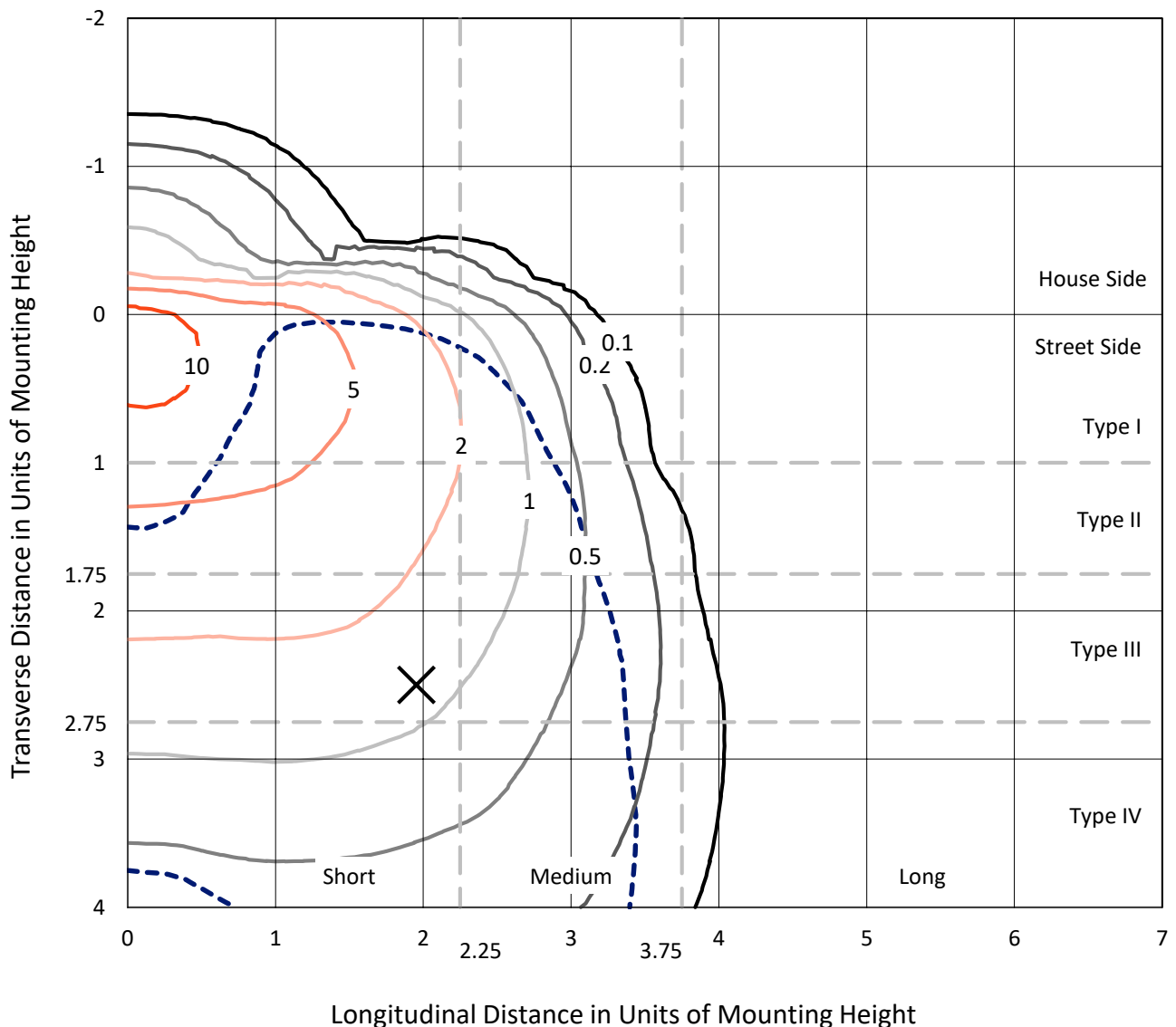
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

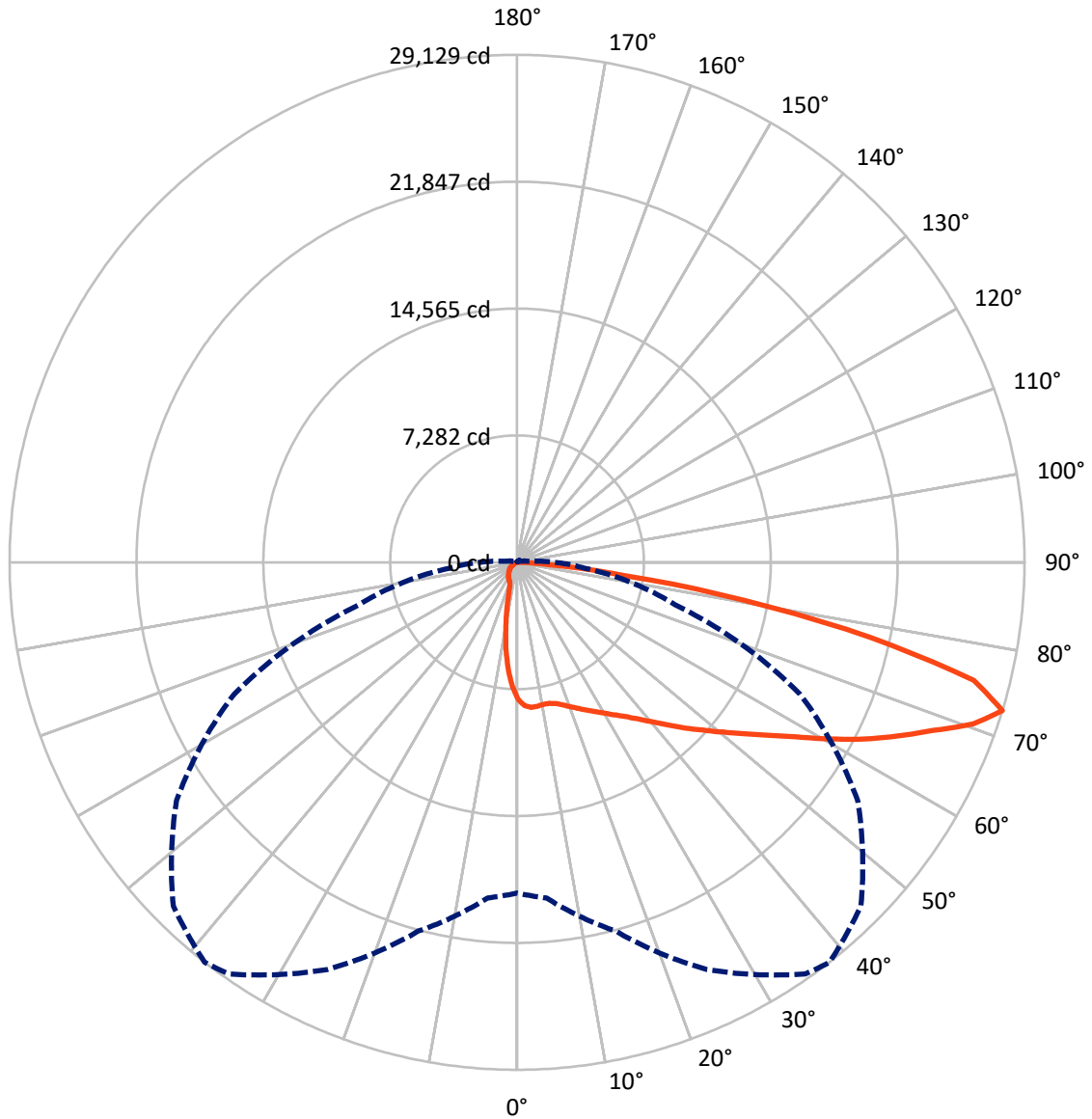
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3598.9	0.0	3598.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	39166.6	0.0	39166.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	42765.5	0.0	42765.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.2	1.6
10°-20°	1638.8	3.8
20°-30°	2606.5	6.1
30°-40°	3918.5	9.2
40°-50°	5978.0	14.0
50°-60°	8448.9	19.8
60°-70°	10597.8	24.8
70°-80°	7924.2	18.5
80°-90°	982.6	2.3
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°	42765.5	100.0
0°-180°	42765.5	100.0

Coefficient of Utilization



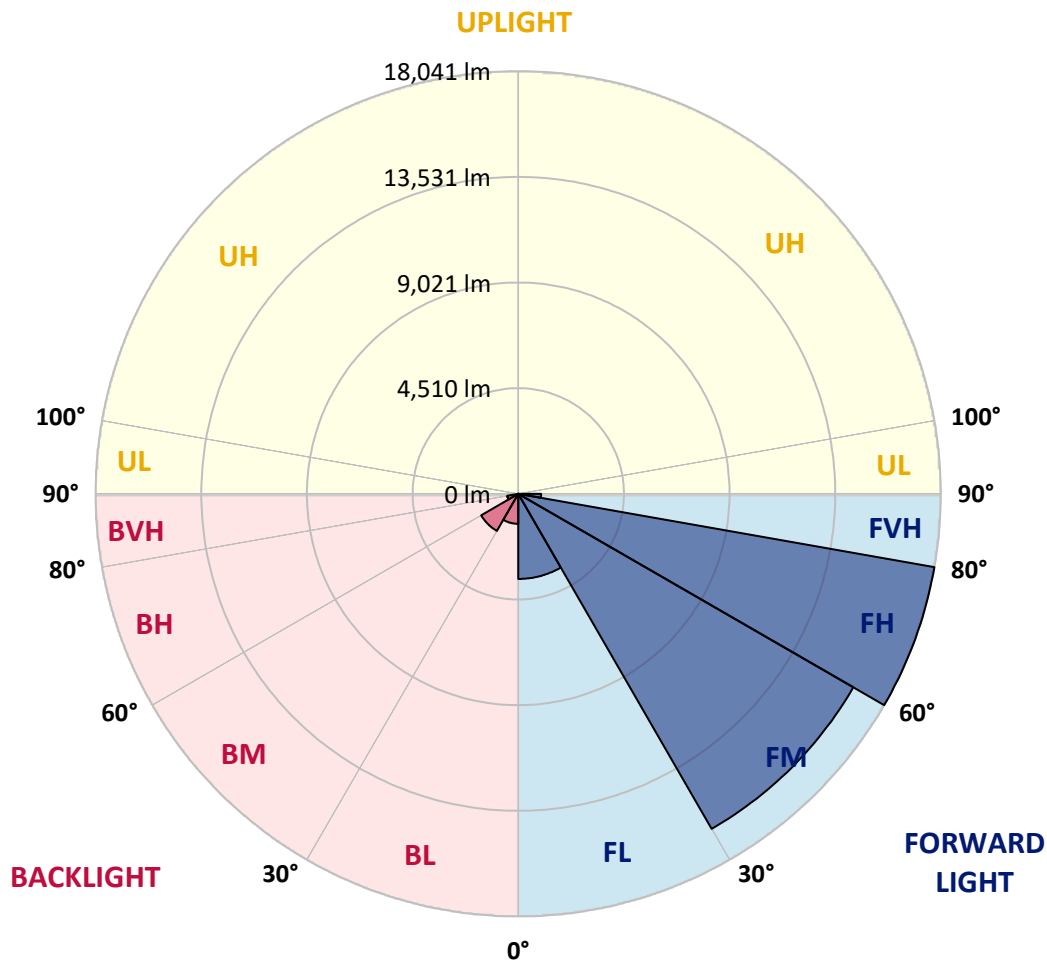
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3634.0	8.5			
FM (30°-60°)	16517.9	38.6			
FH (60°-80°)	18041.2	42.2			G5
FVH (80°-90°)	973.4	2.3			G5
BL (0°-30°)	1281.4	3.0	B3/2500		
BM (30°-60°)	1827.6	4.3	B2/2500		
BH (60°-80°)	480.7	1.1	B1/500		G1/500
BVH (80°-90°)	9.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4
2.5°	8347.5	8349.3	8329.8	8297.8	8257.0	8235.6	8200.1	8143.3	8082.9	7974.5	7857.3
5°	8518.1	8518.1	8493.2	8450.5	8384.9	8365.3	8297.8	8207.2	8082.9	7907.1	7710.0
7.5°	8500.3	8503.8	8470.1	8425.7	8360.0	8342.2	8260.5	8159.2	8004.7	7791.7	7539.4
10°	8407.9	8416.8	8390.2	8368.8	8308.5	8288.9	8212.5	8111.3	7956.8	7729.4	7440.0
12.5°	8313.8	8322.6	8331.6	8351.0	8313.8	8306.7	8246.2	8161.0	8013.6	7777.4	7450.6
15°	8253.4	8271.1	8335.1	8411.5	8420.4	8413.3	8374.1	8294.2	8145.1	7900.0	7527.0
17.5°	8253.4	8281.8	8415.0	8560.6	8612.2	8617.5	8583.7	8471.9	8294.2	8031.3	7598.0
20°	8322.6	8361.8	8569.5	8775.6	8860.8	8860.8	8795.1	8638.8	8431.0	8150.4	7646.0
22.5°	8500.3	8551.8	8812.8	9050.8	9141.5	9121.9	9033.1	8805.7	8573.1	8285.4	7706.3
25°	8850.2	8889.2	9160.9	9400.7	9455.8	9411.4	9299.5	9008.3	8754.2	8468.3	7816.5
27.5°	9301.3	9306.6	9587.2	9789.7	9755.9	9725.7	9585.4	9262.2	9015.3	8729.3	8006.6
30°	9796.8	9796.8	10043.7	10198.2	10095.2	10070.3	9930.0	9569.4	9349.2	9084.5	8276.5
32.5°	10276.4	10297.6	10498.4	10596.0	10480.6	10455.7	10318.9	9958.4	9793.3	9626.3	8697.4
35°	10739.9	10755.8	10945.9	10999.2	10889.0	10896.2	10798.5	10493.0	10430.8	10409.6	9331.5
37.5°	11189.2	11192.8	11386.4	11420.1	11365.1	11425.4	11434.4	11164.4	11279.8	11452.1	10224.9
40°	11599.5	11603.1	11794.9	11881.9	11976.1	12054.1	12123.4	11979.6	12361.5	12761.1	11288.7
42.5°	11928.1	11965.4	12208.7	12373.8	12622.6	12771.7	12960.0	12952.9	13649.1	14249.4	12574.6
45°	12217.6	12281.5	12620.7	12910.2	13336.5	13574.5	13869.3	14100.2	15098.3	15906.5	13876.4
47.5°	12599.5	12659.8	13047.0	13521.2	14089.6	14402.1	14890.6	15389.6	16691.5	17533.3	15148.1
50°	13137.6	13111.0	13492.8	14173.0	14903.0	15313.2	16009.5	16757.2	18272.2	18950.7	15895.8
52.5°	13711.3	13700.6	13983.0	14881.7	15862.1	16341.6	17261.6	18171.0	19783.6	19927.5	16238.6
55°	14421.7	14345.3	14583.3	15689.8	17000.6	17515.6	18599.0	19570.5	20987.8	20478.1	16410.9
57.5°	15165.9	15039.7	15267.0	16590.3	18284.6	18893.8	20080.3	20934.5	21788.8	20854.6	16409.1
60°	15934.9	15785.7	16055.7	17716.3	19879.5	20584.6	21685.8	21856.3	22536.6	21044.6	16288.3
62.5°	16577.8	16489.0	16890.4	18920.5	21660.9	22353.6	22898.8	22694.6	23167.0	21192.1	16005.9
65°	17258.0	17263.3	17911.6	20325.3	23554.2	24021.4	24067.5	23781.6	23694.6	21161.9	15050.4
67.5°	18178.0	18263.3	19345.0	22232.9	25396.0	25756.5	25753.0	24959.0	24079.9	19961.2	12931.6
70°	19151.3	19352.1	20996.7	24415.6	27406.5	27772.4	27584.1	25708.6	22673.3	16140.9	9152.1
72.5°	18987.9	19336.0	21914.9	25792.0	28850.5	29129.3	27905.6	23866.8	17920.6	9381.2	3896.7
75°	14649.1	15052.2	20094.4	24428.1	27335.5	27085.0	23976.9	18572.4	9793.3	2617.9	877.3
77.5°	7738.4	7953.3	13274.4	18609.6	21314.6	20790.7	16890.4	10303.0	2985.6	648.3	394.3
80°	4053.0	4102.7	5784.6	10558.7	13155.3	13158.9	10009.9	4525.5	1230.9	332.1	264.7
82.5°	2170.3	2213.0	3056.6	4878.9	6892.9	6248.2	3832.8	2490.0	715.8	188.3	253.9
85°	522.1	531.1	1733.4	2229.0	2710.2	1935.9	1138.4	2090.4	193.6	110.1	206.1
87.5°	200.7	204.3	643.0	964.4	690.9	447.6	532.8	779.7	24.9	42.7	32.0
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°	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4
2.5°	7786.2	7740.1	7626.4	7482.6	7354.7	7262.3	7123.8	7033.3	6972.8	6971.1	6947.9
5°	7589.1	7495.0	7250.0	6958.7	6694.0	6456.0	6175.4	5953.4	5788.2	5761.5	5704.7
7.5°	7377.8	7223.3	6846.8	6392.1	5948.0	5497.0	4973.0	4648.0	4369.1	4235.9	4221.7
10°	7248.1	7031.4	6496.9	5839.7	5143.5	4409.9	3724.4	3250.2	2907.5	2809.7	2736.9
12.5°	7221.5	6935.6	6226.9	5321.1	4326.5	3356.7	2598.4	2094.0	1820.4	1733.4	1710.3
15°	7248.1	6891.1	5999.5	4807.8	3498.9	2381.7	1744.1	1451.1	1348.0	1323.2	1321.4
17.5°	7264.1	6837.8	5742.1	4237.7	2696.1	1701.5	1335.6	1250.3	1234.4	1232.6	1236.2
20°	7262.3	6756.1	5434.7	3601.8	2005.2	1337.4	1207.8	1190.0	1186.4	1188.2	1186.4
22.5°	7250.0	6660.3	5097.3	2946.5	1515.0	1195.3	1152.7	1142.0	1140.2	1140.2	1140.2
25°	7273.0	6583.9	4726.1	2319.6	1248.6	1129.6	1103.0	1094.1	1092.2	1092.2	1088.7
27.5°	7356.4	6541.2	4319.4	1784.9	1127.8	1071.0	1049.7	1047.9	1042.6	1040.8	1044.4
30°	7491.4	6541.2	3873.6	1388.8	1055.0	1010.5	994.6	991.1	989.3	987.5	989.3
32.5°	7729.4	6591.0	3386.9	1154.5	985.8	943.1	932.5	937.8	932.5	932.5	932.5
35°	8159.2	6740.2	2877.3	1007.0	912.9	877.3	866.7	873.8	870.3	870.3	868.5
37.5°	8786.2	7017.3	2364.0	918.2	848.9	811.7	797.5	808.1	804.6	804.6	802.8
40°	9549.9	7420.4	1875.5	850.8	786.8	747.8	735.3	740.6	731.7	731.7	735.3
42.5°	10493.0	7931.9	1449.3	785.0	724.7	687.3	680.2	674.9	658.9	650.0	651.8
45°	11540.9	8464.8	1129.6	721.1	666.1	635.9	625.2	611.0	584.4	566.6	568.3
47.5°	12476.9	8875.0	918.2	658.9	612.8	589.7	573.6	547.0	508.0	486.6	488.4
50°	12968.8	8937.2	781.5	596.7	563.0	539.9	516.8	476.0	429.8	406.7	404.9
52.5°	13095.0	8645.9	680.2	539.9	513.3	486.6	456.5	401.4	349.9	325.0	321.5
55°	13141.2	8201.9	589.7	486.6	460.0	429.8	390.7	328.6	280.6	255.7	253.9
57.5°	12988.4	7539.4	518.6	438.7	406.7	369.5	321.5	262.9	216.7	197.1	197.1
60°	12649.2	6642.5	463.5	387.2	351.7	309.0	259.3	204.3	161.6	145.6	145.6
62.5°	11972.4	5480.9	412.0	333.9	300.1	255.7	209.6	154.5	113.6	104.8	106.6
65°	10695.5	4157.8	360.5	286.0	255.7	211.4	163.4	110.1	76.4	76.4	79.9
67.5°	8722.3	2887.9	307.2	243.3	220.2	172.2	124.4	76.4	53.3	60.4	67.4
70°	5774.0	1619.8	262.9	200.7	188.3	136.8	92.3	51.5	42.7	56.8	69.3
72.5°	2179.3	630.5	220.2	161.6	163.4	104.8	65.7	39.0	39.0	62.1	81.7
75°	607.4	309.0	158.1	119.0	127.9	76.4	48.0	33.7	37.3	71.1	95.9
77.5°	357.0	227.3	103.0	69.3	87.0	53.3	32.0	26.6	32.0	60.4	92.3
80°	287.8	120.7	60.4	35.5	48.0	30.2	21.3	16.0	8.8	23.1	48.0
82.5°	287.8	72.8	28.4	24.9	24.9	16.0	10.6	7.1	1.8	0.0	12.4
85°	193.6	30.2	17.8	16.0	12.4	5.3	3.5	1.8	0.0	0.0	0.0
87.5°	32.0	12.4	7.1	3.5	1.8	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)