

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: P382685

Luminaire Tested: **GLEON-SA0D-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0D-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58565.5 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

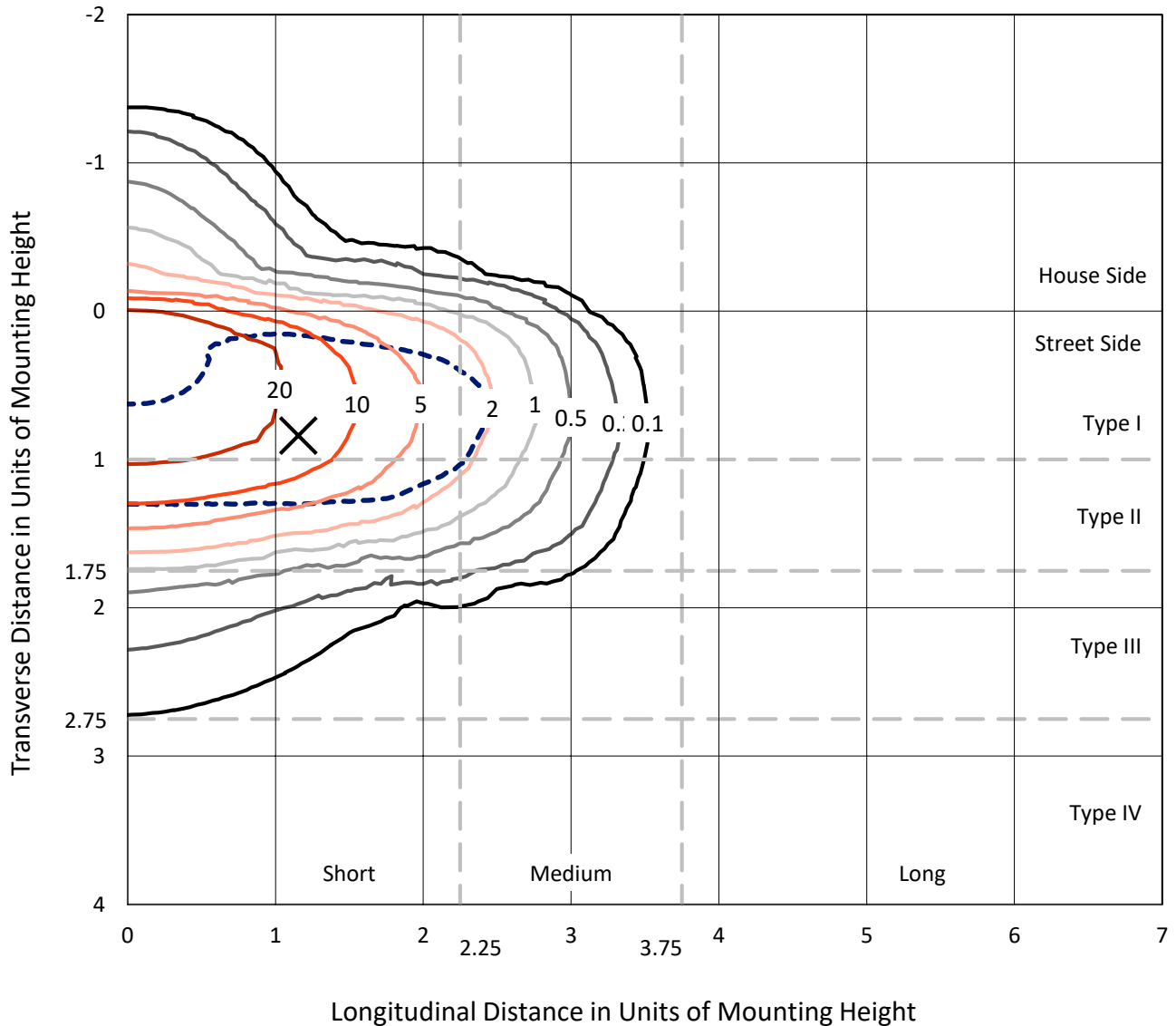
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

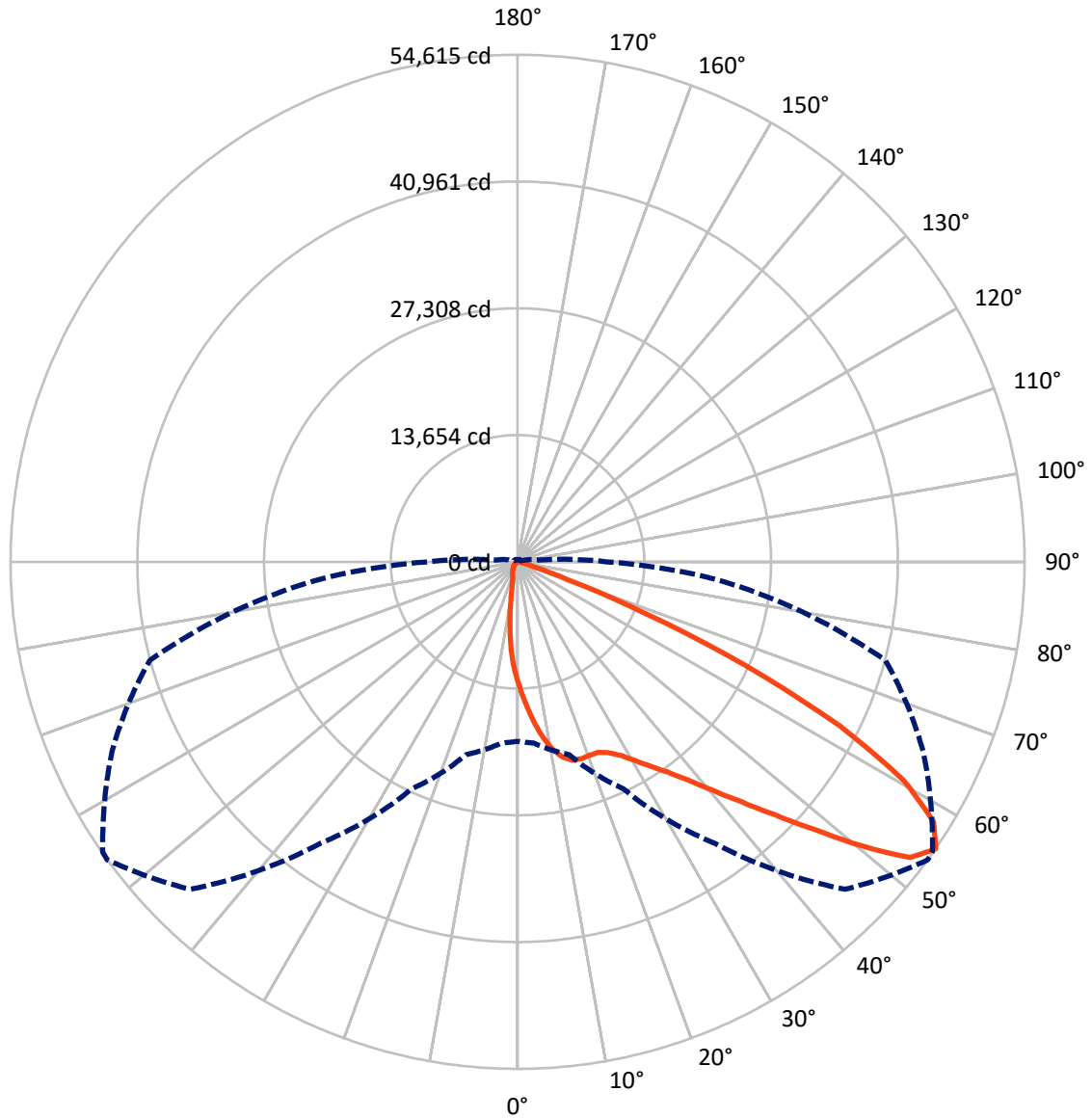
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2922.0	0.0	2922.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	55643.5	0.0	55643.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	58565.5	0.0	58565.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1207.9	2.1
10°-20°	3312.6	5.7
20°-30°	5655.7	9.7
30°-40°	9076.5	15.5
40°-50°	14504.2	24.8
50°-60°	15541.7	26.5
60°-70°	7979.5	13.6
70°-80°	1208.7	2.1
80°-90°	78.7	0.1
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°	58565.5	100.0
0°-180°	58565.5	100.0

Coefficient of Utilization

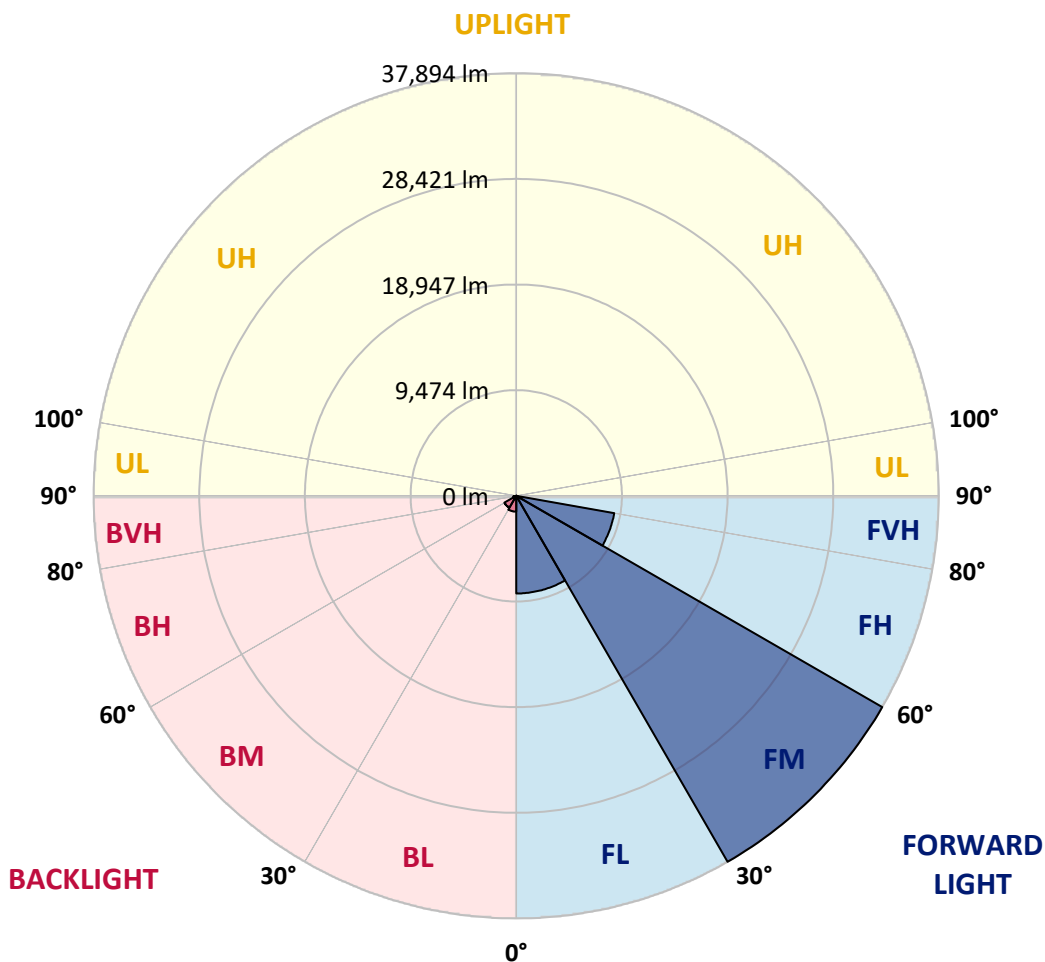


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8754.5	14.9			
FM (30°-60°)	37894.5	64.7			
FH (60°-80°)	8919.0	15.2			G4/12000
FVH (80°-90°)	75.5	0.1			G1/100
BL (0°-30°)	1421.7	2.4	B3/2500		
BM (30°-60°)	1227.9	2.1	B2/2500		
BH (60°-80°)	269.3	0.5	B1/500		G1/500
BVH (80°-90°)	3.2	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	13116.3	13116.3	13116.3	13116.3	13116.3	13116.3	13116.3	13116.3	13116.3	13116.3	13116.3
2.5°	16459.9	16214.5	16222.2	16110.8	15703.7	15385.0	15053.6	14975.3	14459.3	13918.1	13397.1
5°	19305.2	19125.6	19082.7	18867.7	18301.1	17701.7	17059.3	16910.1	15901.0	14793.2	13703.1
7.5°	20767.1	20769.6	20734.2	20655.8	20301.7	19720.0	18935.9	18779.2	17405.8	15744.1	14021.7
10°	20342.2	20438.2	20635.5	20896.1	21166.7	21093.3	20504.0	20362.4	18870.2	16750.7	14375.8
12.5°	19350.8	19363.4	19583.5	20010.9	20789.8	21589.1	21599.1	21551.1	20268.8	17802.9	14765.3
15°	18857.5	18905.6	18986.5	19262.2	20000.7	21280.5	22196.1	22264.4	21551.1	18920.8	15180.1
17.5°	19181.3	19249.6	19181.3	19214.2	19641.6	20792.3	22299.8	22474.2	22671.5	20026.0	15572.1
20°	20058.9	20122.2	20000.7	19866.6	19950.1	20650.7	22226.4	22461.7	23549.2	21007.3	15901.0
22.5°	21242.5	21267.9	21083.3	20863.2	20802.5	21131.3	22287.1	22529.9	24252.3	21895.1	16108.3
25°	22545.1	22567.9	22337.7	22084.8	21940.6	22074.7	22785.4	22967.5	24871.9	22742.3	16227.2
27.5°	23964.0	23984.2	23695.9	23384.7	23217.9	23222.9	23607.4	23802.1	25532.0	23708.5	16323.3
30°	25463.8	25453.6	25188.1	24755.6	24543.1	24538.1	24791.0	24988.3	26488.1	24947.8	16454.9
32.5°	27148.2	27128.0	26751.1	26215.0	25974.6	26010.0	26235.2	26349.0	27674.2	26268.1	16690.1
35°	29366.3	29308.1	28739.1	28073.9	27631.3	27618.6	27808.3	27899.4	29186.7	27866.5	17082.1
37.5°	32244.5	32191.4	31420.0	30453.8	29831.6	29599.0	29824.1	29940.4	31344.1	29917.7	17711.8
40°	35082.2	35029.1	34571.3	33686.2	32727.6	32168.6	32345.7	32469.6	34037.6	32406.3	18506.0
42.5°	37039.8	37085.3	37244.7	37318.0	36420.2	35246.6	35327.5	35456.6	36867.9	35067.1	19414.0
45°	37555.7	37654.4	38554.8	40322.7	40659.1	39743.5	38896.2	38967.0	39743.5	37727.8	20321.9
47.5°	36005.3	36187.5	37925.0	41213.0	44060.8	44708.2	43104.8	43011.2	42502.8	39880.1	20966.9
50°	32482.2	32649.2	34900.2	39763.8	45092.7	49447.9	48148.0	47872.2	44923.2	41167.4	21194.5
52.5°	27383.4	27585.7	29414.4	35201.1	43147.8	51562.4	52923.1	52692.9	46698.8	41268.6	21232.5
55°	19338.1	19583.5	21518.3	26978.7	36984.1	49880.5	54615.1	54546.8	48173.2	41000.5	21313.3
57.5°	10867.9	11044.9	13131.5	17294.6	27087.4	43446.2	52847.2	53299.9	49063.5	40535.1	21434.8
60°	4825.7	4873.8	5953.7	8609.4	15857.9	33203.1	47786.2	48550.1	48299.7	39912.9	21639.7
62.5°	2675.9	2635.4	2635.4	3578.8	6892.1	20554.6	38967.0	40229.1	45039.6	39177.0	21649.7
65°	2096.7	2058.7	1950.0	1965.2	2625.3	9122.7	26983.8	29227.2	38848.1	37019.6	20921.3
67.5°	1778.0	1745.2	1636.4	1593.4	1631.3	3009.7	14826.0	17155.4	29477.5	31412.3	18121.6
70°	1502.3	1479.6	1424.0	1370.8	1274.7	1487.1	5672.9	7256.2	18164.5	20896.1	12370.2
72.5°	1209.0	1198.8	1219.0	1173.6	1057.2	991.4	1939.9	2349.6	8159.1	9325.1	5096.3
75°	1042.0	1037.0	1047.1	1001.6	870.1	690.5	986.4	1077.4	2301.6	2281.4	1031.9
77.5°	677.8	685.4	867.6	847.2	748.6	460.3	510.9	551.4	698.0	523.5	313.7
80°	432.5	427.4	440.1	703.1	672.8	351.6	255.4	268.1	336.4	257.9	151.7
82.5°	263.1	257.9	288.3	328.8	338.9	245.4	156.8	159.3	209.9	166.9	81.0
85°	22.7	30.4	174.5	161.9	116.4	75.9	75.9	81.0	111.3	98.7	45.6
87.5°	0.0	0.0	30.4	45.6	25.3	27.9	27.9	30.4	43.0	43.0	22.7
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°	13116.3	13116.3	13116.3	13116.3	13116.3	13116.3	13116.3	13116.3	13116.3	13116.3	13116.3
2.5°	13126.4	12863.4	12332.3	11821.3	11388.9	10971.6	10496.1	10025.7	9805.7	9717.1	9626.1
5°	13149.2	12607.9	11512.8	10410.1	9266.9	8237.5	7359.9	6459.5	6009.3	5812.0	5721.0
7.5°	13179.5	12355.0	10584.6	8733.3	6892.1	5495.9	4276.8	3492.8	3153.8	3100.7	2969.2
10°	13184.6	12049.0	9507.2	6881.9	4620.8	3313.2	2549.4	2144.7	1995.6	1970.2	1927.3
12.5°	13194.7	11687.3	8310.9	5096.3	3080.5	2215.6	1843.8	1709.8	1669.2	1666.7	1666.7
15°	13225.1	11308.0	7069.0	3672.3	2213.0	1755.2	1618.7	1565.6	1550.4	1558.0	1555.4
17.5°	13225.1	10860.3	5850.0	2736.6	1788.1	1578.2	1502.3	1466.9	1461.9	1469.4	1471.9
20°	13129.0	10316.5	4732.1	2129.6	1585.8	1464.4	1396.1	1363.2	1350.6	1355.7	1358.2
22.5°	12898.8	9648.8	3821.6	1762.9	1451.7	1360.7	1287.3	1236.7	1216.5	1219.0	1219.0
25°	12539.7	8857.2	2989.5	1525.1	1343.0	1249.4	1163.4	1105.3	1092.6	1090.1	1095.1
27.5°	12079.4	7982.1	2379.9	1343.0	1214.0	1125.5	1039.5	991.4	981.3	983.8	986.4
30°	11626.6	7074.1	1876.7	1188.7	1069.9	986.4	920.6	897.8	897.8	905.5	908.0
32.5°	11211.8	6201.5	1484.6	1054.7	940.9	864.9	827.0	824.5	837.2	842.2	844.7
35°	10855.2	5394.8	1229.2	951.0	839.7	773.9	761.3	771.4	786.6	796.7	799.2
37.5°	10602.3	4673.9	1074.9	864.9	761.3	708.2	705.6	725.9	746.1	768.9	773.9
40°	10496.1	4064.3	968.7	789.1	698.0	657.6	650.0	677.8	715.8	748.6	753.7
42.5°	10407.5	3566.2	877.6	715.8	647.4	589.3	586.8	622.2	667.7	700.6	708.2
45°	10331.7	3166.5	794.1	637.4	581.8	505.8	513.5	558.9	594.3	629.7	637.4
47.5°	10174.9	2837.8	703.1	553.9	480.6	432.5	447.7	488.1	516.0	569.1	576.6
50°	9894.2	2569.7	609.5	452.7	392.0	374.3	397.1	424.9	460.3	505.8	510.9
52.5°	9704.5	2367.3	528.6	379.4	323.7	328.8	351.6	361.6	381.9	399.6	394.5
55°	9595.7	2256.0	462.9	328.8	275.6	290.8	296.0	283.3	273.1	255.4	247.9
57.5°	9583.0	2154.9	412.2	285.8	242.8	250.4	232.7	189.7	154.3	134.0	129.0
60°	9562.8	2031.0	371.8	240.2	215.0	204.8	166.9	103.7	73.3	68.3	68.3
62.5°	9342.8	1838.7	341.4	202.3	182.1	154.3	96.1	48.1	40.4	43.0	43.0
65°	8642.2	1570.6	311.0	164.4	144.2	111.3	48.1	27.9	15.2	17.7	17.7
67.5°	7347.3	1251.9	278.3	126.5	108.7	70.8	27.9	12.7	0.0	0.0	0.0
70°	4919.2	776.4	235.2	88.5	70.8	43.0	20.2	2.5	0.0	0.0	0.0
72.5°	1886.8	419.8	189.7	53.1	45.6	30.4	12.7	0.0	0.0	0.0	0.0
75°	424.9	275.6	131.5	37.9	32.9	20.2	5.0	0.0	0.0	0.0	0.0
77.5°	161.9	199.8	75.9	25.3	22.7	12.7	0.0	0.0	0.0	0.0	0.0
80°	78.4	118.9	35.4	15.2	12.7	5.0	0.0	0.0	0.0	0.0	0.0
82.5°	40.4	45.6	15.2	7.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.7	22.7	7.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.7	7.5	2.5	2.5	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)