

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: P383245

Luminaire Tested: **GLEON-SA5D-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383245
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-SA5D-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 29572.9 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

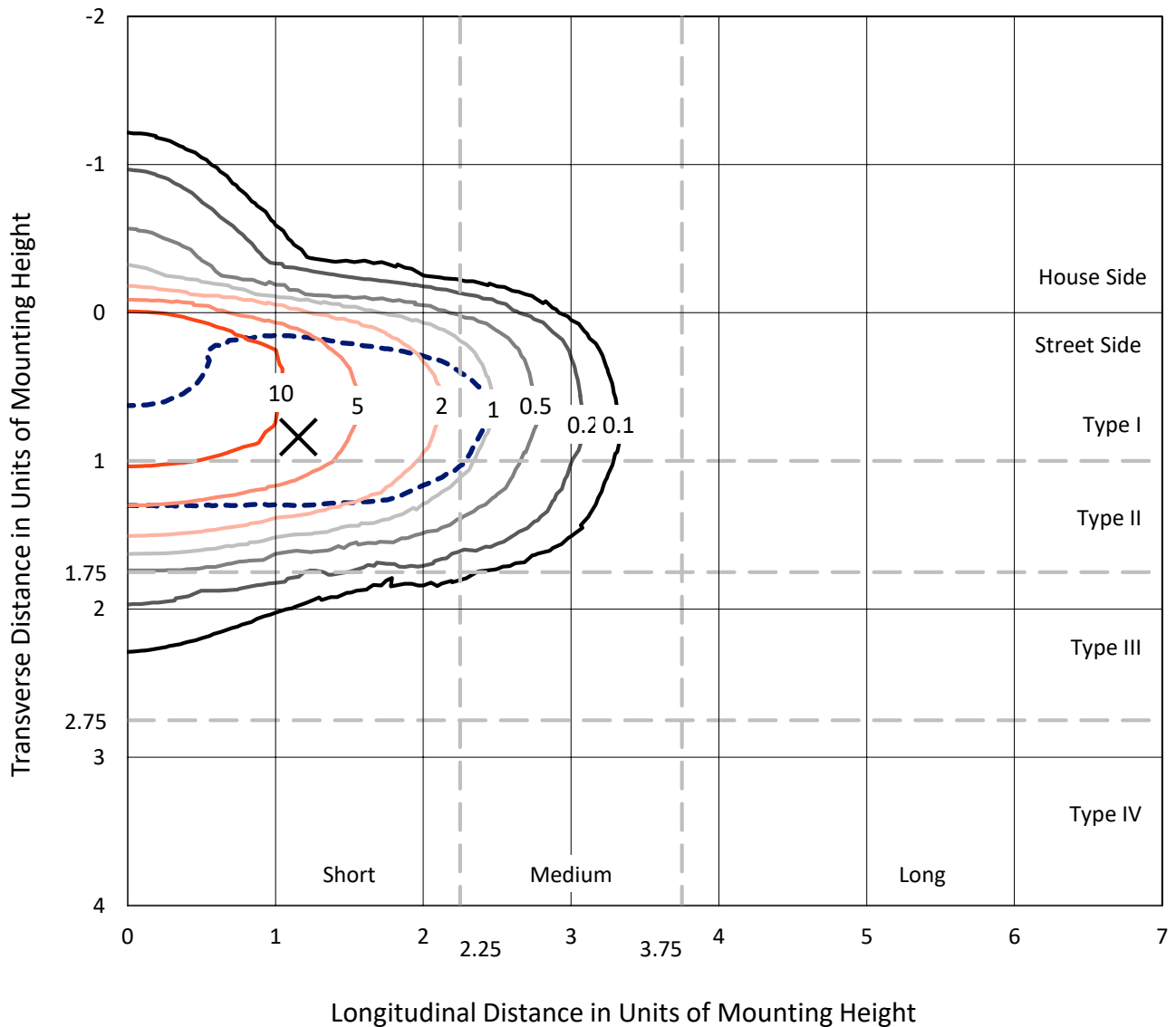
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

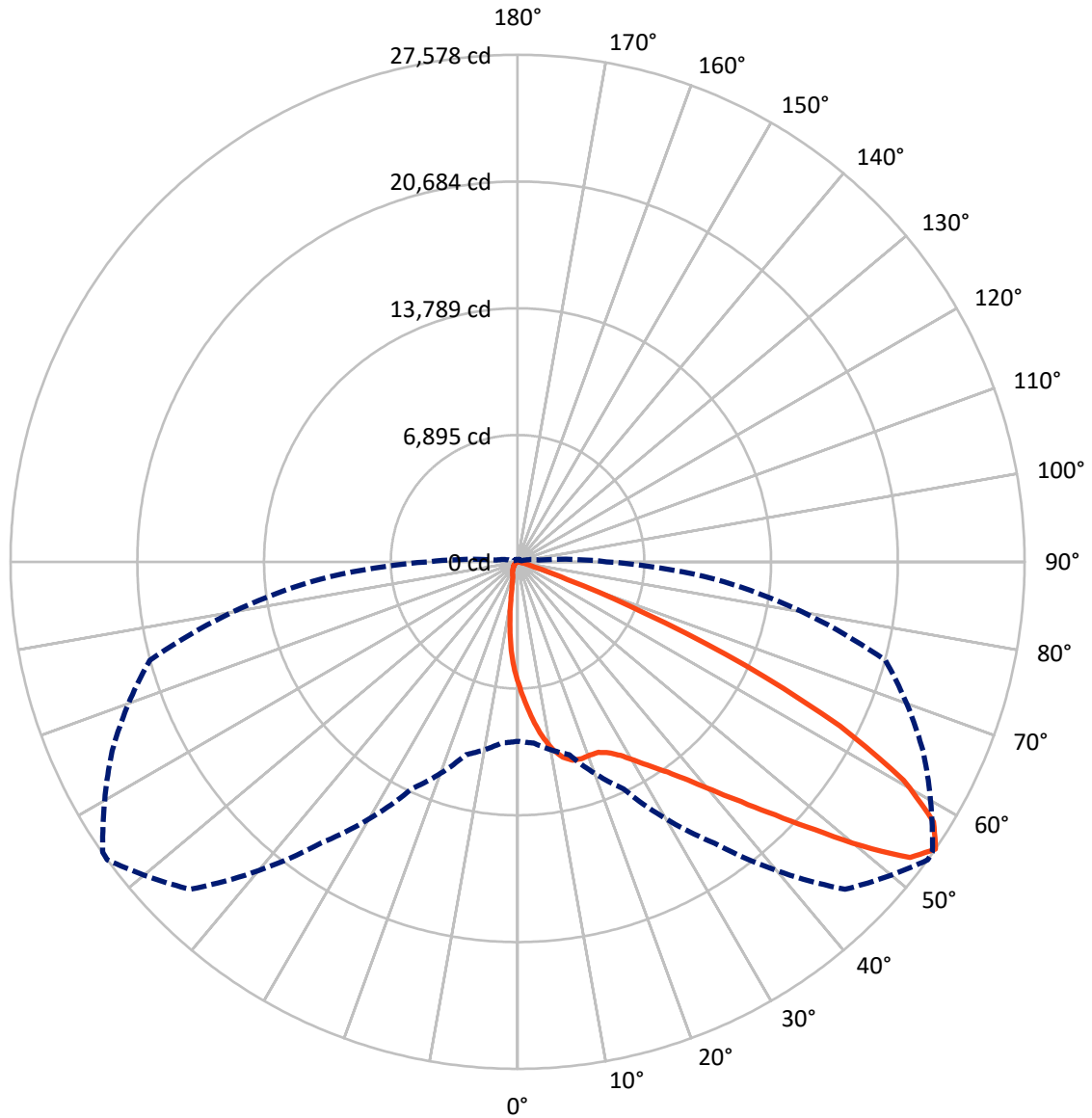
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 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	1475.5	0.0	1475.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	28097.4	0.0	28097.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	29572.9	0.0	29572.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.9	2.1
10°-20°	1672.7	5.7
20°-30°	2855.9	9.7
30°-40°	4583.2	15.5
40°-50°	7324.0	24.8
50°-60°	7847.8	26.5
60°-70°	4029.3	13.6
70°-80°	610.3	2.1
80°-90°	39.7	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°	29572.9	100.0
0°-180°	29572.9	100.0



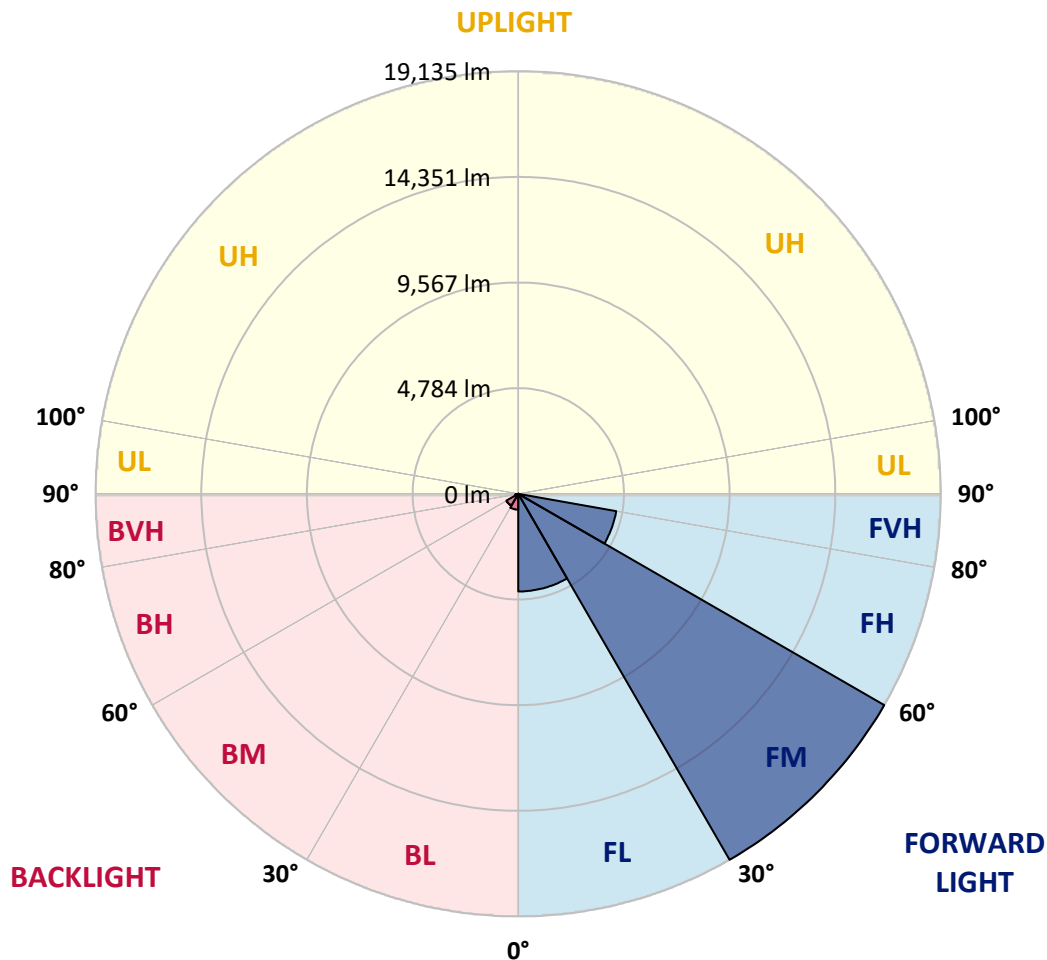
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4420.6	14.9			
FM (30°-60°)	19135.0	64.7			
FH (60°-80°)	4503.7	15.2			G2/5000
FVH (80°-90°)	38.1	0.1			G1/100
BL (0°-30°)	717.9	2.4	B2/1000		
BM (30°-60°)	620.0	2.1	B1/1000		
BH (60°-80°)	136.0	0.5	B1/500		G1/500
BVH (80°-90°)	1.6	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6623.1	6623.1	6623.1	6623.1	6623.1	6623.1	6623.1	6623.1	6623.1	6623.1	6623.1
2.5°	8311.5	8187.7	8191.5	8135.3	7929.6	7768.7	7601.4	7561.8	7301.3	7028.0	6764.9
5°	9748.3	9657.5	9635.8	9527.3	9241.2	8938.6	8614.2	8538.8	8029.3	7469.9	6919.4
7.5°	10486.4	10487.7	10469.8	10430.3	10251.4	9957.7	9561.8	9482.6	8789.2	7950.1	7080.3
10°	10271.9	10320.4	10420.0	10551.5	10688.2	10651.2	10353.6	10282.0	9528.6	8458.4	7259.2
12.5°	9771.3	9777.6	9888.8	10104.6	10497.9	10901.5	10906.6	10882.3	10234.8	8989.6	7455.8
15°	9522.2	9546.5	9587.3	9726.6	10099.5	10745.7	11208.0	11242.5	10882.3	9554.1	7665.2
17.5°	9685.7	9720.1	9685.7	9702.3	9918.1	10499.2	11260.4	11348.5	11448.1	10112.2	7863.2
20°	10128.8	10160.8	10099.5	10031.7	10073.9	10427.7	11223.3	11342.1	11891.3	10607.7	8029.3
22.5°	10726.5	10739.3	10646.1	10535.0	10504.3	10670.3	11254.0	11376.6	12246.3	11056.1	8134.0
25°	11384.3	11395.7	11279.6	11151.8	11079.0	11146.7	11505.5	11597.5	12559.2	11483.8	8194.0
27.5°	12100.7	12111.0	11965.4	11808.3	11724.0	11726.5	11920.6	12019.0	12892.5	11971.7	8242.5
30°	12858.1	12852.9	12718.9	12500.4	12393.2	12390.6	12518.3	12617.9	13375.3	12597.5	8308.9
32.5°	13708.6	13698.4	13508.1	13237.4	13116.0	13133.9	13247.5	13305.0	13974.2	13264.2	8427.7
35°	14828.7	14799.3	14511.9	14176.0	13952.5	13946.1	14042.0	14087.9	14737.9	14071.3	8625.7
37.5°	16282.0	16255.2	15865.7	15377.8	15063.6	14946.1	15059.8	15118.6	15827.4	15107.1	8943.7
40°	17715.0	17688.1	17456.9	17010.0	16525.9	16243.7	16333.1	16395.7	17187.5	16363.8	9344.7
42.5°	18703.4	18726.4	18806.8	18843.9	18390.5	17798.0	17838.9	17904.0	18616.6	17707.2	9803.1
45°	18964.0	19013.7	19468.4	20361.1	20531.0	20068.7	19640.8	19676.6	20068.7	19050.8	10261.6
47.5°	18181.1	18273.1	19150.4	20810.7	22248.7	22575.7	21766.0	21718.7	21462.0	20137.6	10587.3
50°	16402.0	16486.3	17623.0	20078.9	22769.8	24969.0	24312.6	24173.3	22684.2	20787.7	10702.3
52.5°	13827.3	13929.5	14852.9	17775.0	21787.7	26036.7	26723.8	26607.5	23580.7	20838.8	10721.5
55°	9764.9	9888.8	10865.8	13623.0	18675.3	25187.4	27578.1	27543.6	24325.3	20703.4	10762.3
57.5°	5487.7	5577.2	6630.8	8733.0	13677.9	21938.4	26685.4	26914.0	24774.9	20468.4	10823.6
60°	2436.7	2461.1	3006.4	4347.3	8007.6	16766.0	24129.9	24515.6	24389.1	20154.2	10927.1
62.5°	1351.2	1330.7	1330.7	1807.1	3480.2	10379.1	19676.6	20313.9	22743.0	19782.6	10932.2
65°	1058.7	1039.6	984.6	992.3	1325.7	4606.6	13625.6	14758.4	19616.5	18693.2	10564.3
67.5°	897.8	881.2	826.3	804.6	823.8	1519.7	7486.5	8662.7	14884.8	15861.8	9150.6
70°	758.7	747.1	719.1	692.2	643.7	750.9	2864.6	3664.1	9172.3	10551.5	6246.4
72.5°	610.4	605.3	615.6	592.6	533.9	500.6	979.5	1186.4	4120.0	4708.8	2573.4
75°	526.1	523.6	528.7	505.7	439.3	348.7	498.1	544.0	1162.2	1152.0	521.1
77.5°	342.3	346.1	438.0	427.9	378.0	232.4	257.9	278.4	352.5	264.4	158.4
80°	218.4	215.8	222.2	355.0	339.7	177.6	129.0	135.4	169.8	130.2	76.7
82.5°	132.8	130.2	145.6	166.0	171.1	123.9	79.2	80.5	106.0	84.3	40.9
85°	11.5	15.4	88.1	81.7	58.8	38.3	38.3	40.9	56.2	49.8	23.0
87.5°	0.0	0.0	15.4	23.0	12.8	14.1	14.1	15.4	21.7	21.7	11.5
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°	6623.1	6623.1	6623.1	6623.1	6623.1	6623.1	6623.1	6623.1	6623.1	6623.1	6623.1
2.5°	6628.2	6495.4	6227.2	5969.3	5750.9	5540.2	5300.0	5062.5	4951.4	4906.7	4860.7
5°	6639.8	6366.5	5813.4	5256.6	4679.3	4159.5	3716.4	3261.7	3034.4	2934.8	2888.8
7.5°	6655.1	6238.8	5344.8	4409.9	3480.2	2775.2	2159.6	1763.7	1592.6	1565.7	1499.3
10°	6657.6	6084.2	4800.7	3475.0	2333.3	1673.1	1287.3	1083.0	1007.7	994.9	973.2
12.5°	6662.7	5901.5	4196.6	2573.4	1555.5	1118.8	931.0	863.4	842.9	841.7	841.7
15°	6678.1	5710.0	3569.6	1854.3	1117.5	886.4	817.3	790.5	782.9	786.7	785.4
17.5°	6678.1	5483.9	2953.9	1381.9	902.9	796.9	758.7	740.8	738.2	742.0	743.3
20°	6629.5	5209.4	2389.5	1075.4	800.8	739.5	705.0	688.4	682.0	684.5	685.8
22.5°	6513.3	4872.2	1929.7	890.2	733.0	687.1	650.0	624.5	614.3	615.6	615.6
25°	6331.9	4472.5	1509.6	770.1	678.2	630.9	587.4	558.1	551.8	550.5	553.0
27.5°	6099.5	4030.6	1201.8	678.2	613.1	568.3	524.9	500.6	495.5	496.8	498.1
30°	5870.9	3572.1	947.7	600.3	540.2	498.1	464.8	453.4	453.4	457.2	458.5
32.5°	5661.5	3131.5	749.7	532.6	475.1	436.8	417.6	416.3	422.7	425.3	426.6
35°	5481.4	2724.1	620.7	480.2	424.0	390.8	384.4	389.5	397.2	402.3	403.5
37.5°	5353.7	2360.1	542.8	436.8	384.4	357.6	356.3	366.6	376.7	388.3	390.8
40°	5300.0	2052.3	489.2	398.4	352.5	332.1	328.2	342.3	361.4	378.0	380.5
42.5°	5255.3	1800.8	443.1	361.4	327.0	297.5	296.3	314.2	337.1	353.8	357.6
45°	5217.0	1598.9	401.0	321.8	293.7	255.4	259.2	282.3	300.1	318.0	321.8
47.5°	5137.9	1432.9	355.0	279.7	242.7	218.4	226.1	246.5	260.6	287.4	291.2
50°	4996.1	1297.6	307.8	228.6	198.0	189.0	200.5	214.5	232.4	255.4	257.9
52.5°	4900.3	1195.4	266.9	191.5	163.5	166.0	177.6	182.6	192.8	201.8	199.3
55°	4845.4	1139.2	233.7	166.0	139.2	146.9	149.4	143.0	138.0	129.0	125.2
57.5°	4839.0	1088.1	208.2	144.3	122.6	126.4	117.5	95.8	77.9	67.7	65.1
60°	4828.8	1025.5	187.7	121.3	108.5	103.4	84.3	52.4	37.1	34.5	34.5
62.5°	4717.6	928.5	172.4	102.2	91.9	77.9	48.5	24.2	20.4	21.7	21.7
65°	4363.9	793.1	157.1	83.0	72.8	56.2	24.2	14.1	7.6	8.9	8.9
67.5°	3710.1	632.1	140.5	63.8	55.0	35.8	14.1	6.4	0.0	0.0	0.0
70°	2484.0	392.1	118.8	44.7	35.8	21.7	10.2	1.3	0.0	0.0	0.0
72.5°	952.7	212.0	95.8	26.8	23.0	15.4	6.4	0.0	0.0	0.0	0.0
75°	214.5	139.2	66.4	19.2	16.6	10.2	2.5	0.0	0.0	0.0	0.0
77.5°	81.7	100.9	38.3	12.8	11.5	6.4	0.0	0.0	0.0	0.0	0.0
80°	39.6	60.0	17.9	7.6	6.4	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	20.4	23.0	7.6	3.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.5	11.5	3.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	3.8	1.3	1.3	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)