

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: P191738

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-AFL-7050-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 1050mA 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: 48230 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 558
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: 25 FT

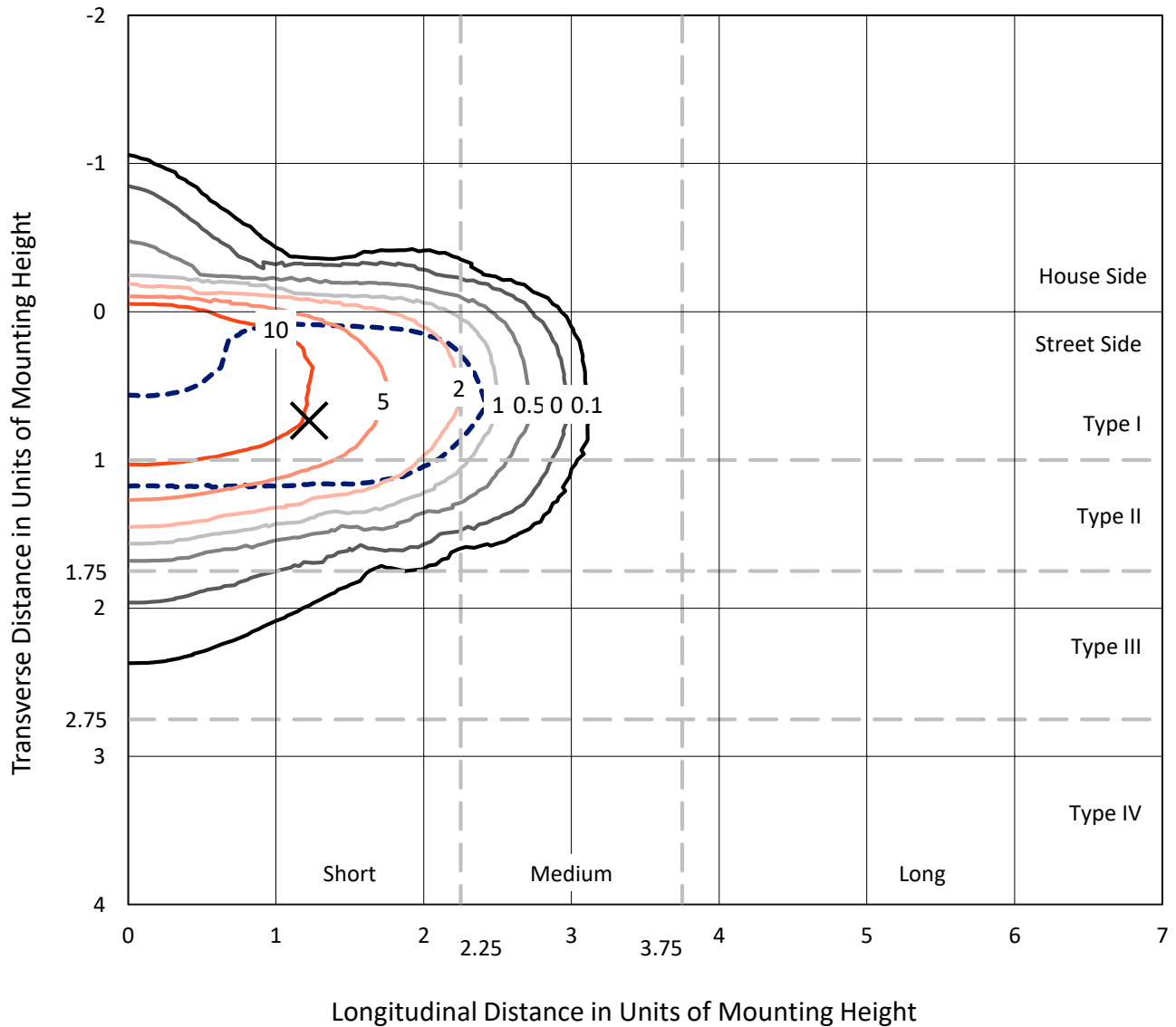


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

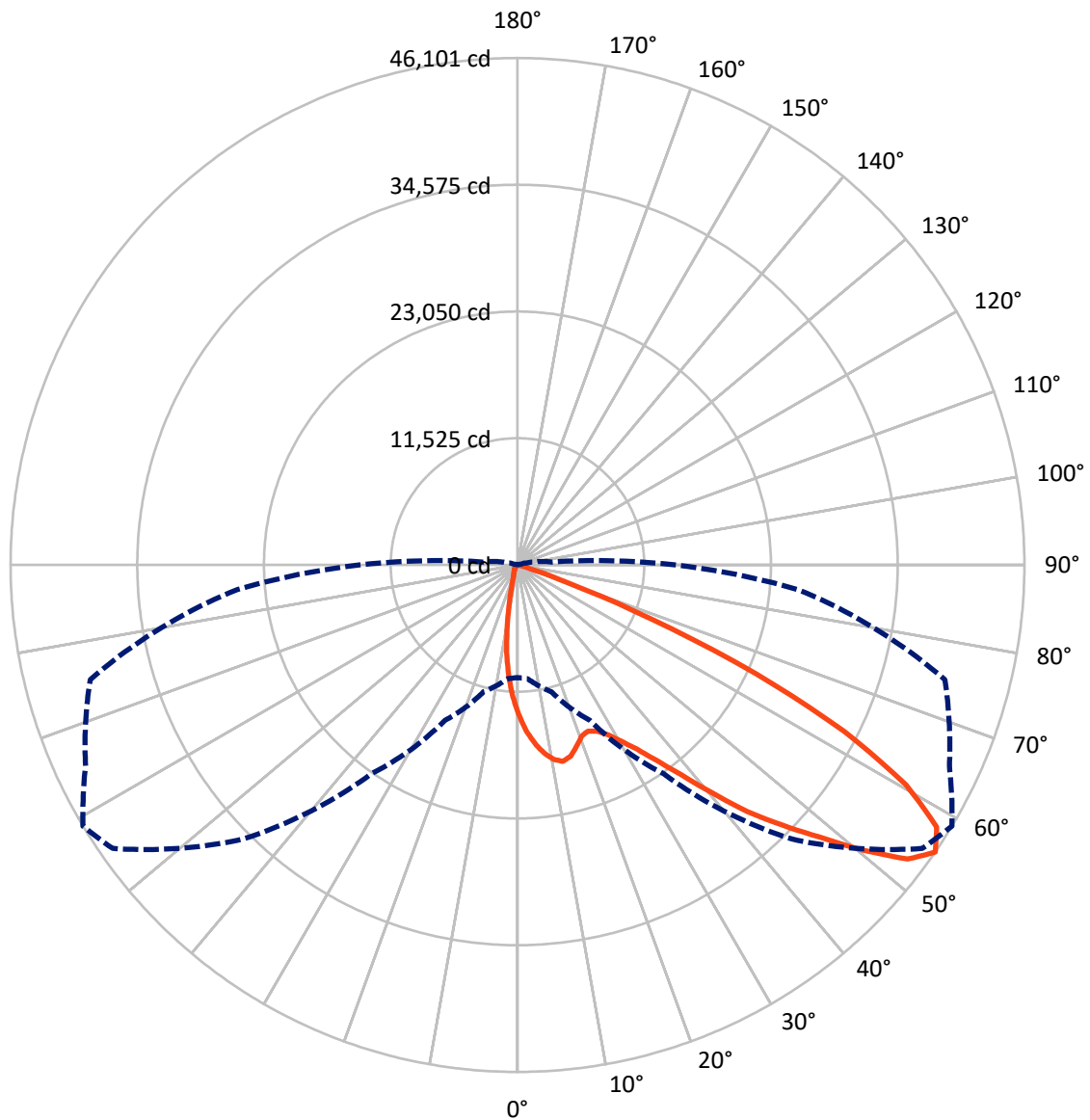


Based on 30 foot mounting height. Maximum calculated value = 18.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2693.9	0.0	2693.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	45536.1	0.0	45536.1
	% Fixture	94.4	0.0	94.4
Total	Lumens	48230.0	0.0	48230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1137.2	2.4
10°-20°	2722.7	5.6
20°-30°	4633.0	9.6
30°-40°	7967.8	16.5
40°-50°	12301.4	25.5
50°-60°	12366.9	25.6
60°-70°	6341.8	13.1
70°-80°	687.3	1.4
80°-90°	71.8	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°	48230.0	100.0
0°-180°	48230.0	100.0

Coefficient of Utilization



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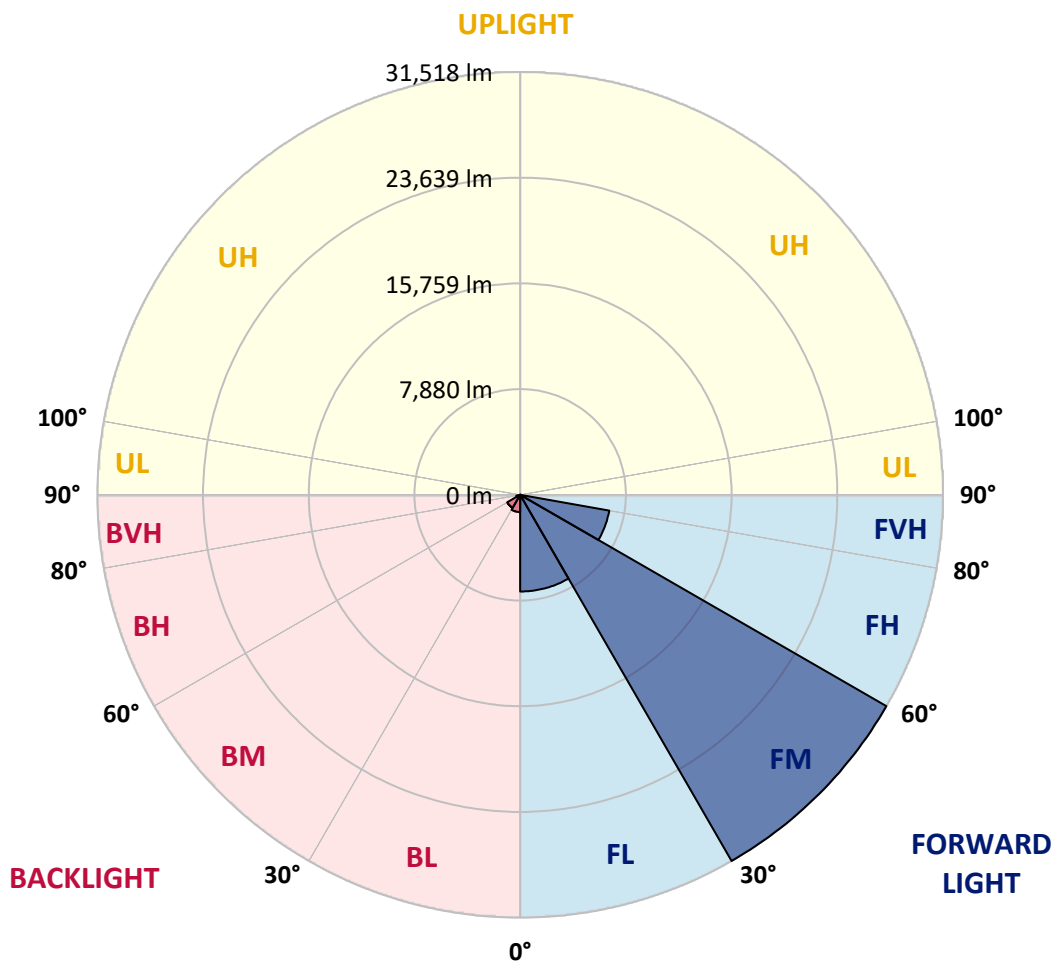
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7207.1	14.9			
FM	(30°-60°)	31518.1	65.3			
FH	(60°-80°)	6740.5	14.0			G3/7500
FVH	(80°-90°)	70.4	0.1			G1/100
BL	(0°-30°)	1285.8	2.7	B3/2500		
BM	(30°-60°)	1118.0	2.3	B2/2500		
BH	(60°-80°)	288.6	0.6	B1/500		G1/500
BVH	(80°-90°)	1.5	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	13576.6	13576.6	13576.6	13576.6	13576.6	13576.6	13576.6	13576.6	13576.6	13576.6	13576.6
2.5°	16064.2	15893.4	15842.2	15808.0	15651.5	15455.1	15187.5	15062.3	14806.1	14393.4	13886.8
5°	17535.7	17504.4	17390.5	17327.9	17160.0	16881.1	16454.1	16249.2	15842.2	15147.7	14239.7
7.5°	16892.4	17088.8	17245.4	17507.2	17837.4	17826.0	17467.4	17253.9	16798.5	15882.0	14632.5
10°	14407.7	14567.1	14823.2	15418.1	16630.6	17700.8	18122.0	17968.3	17604.0	16556.6	15011.1
12.5°	13921.0	13903.9	13949.4	14123.0	14757.8	16283.3	18011.0	18321.3	18247.3	17174.2	15369.7
15°	14180.0	14160.1	14154.4	14214.1	14367.8	15011.1	17177.1	18067.9	18640.0	17746.3	15674.3
17.5°	14905.8	14820.4	14774.8	14726.5	14680.9	14840.3	16175.2	17359.2	18699.8	18247.3	15927.6
20°	16149.6	16007.3	15839.3	15566.1	15309.9	15230.2	15753.9	16630.6	18486.3	18628.6	16092.6
22.5°	17712.2	17530.0	17239.7	16741.6	16220.7	15919.0	15961.7	16400.0	18167.6	19044.2	16169.5
25°	19468.3	19234.9	18847.8	18156.2	17390.5	16855.4	16576.5	16730.2	18022.4	19530.9	16257.7
27.5°	21349.7	21090.6	20584.0	19641.9	18773.8	18050.9	17481.6	17461.7	18270.0	20168.5	16400.0
30°	23213.9	23174.1	22513.8	21517.6	20367.7	19488.2	18668.5	18563.2	18961.7	21050.8	16681.8
32.5°	25701.6	25402.7	24594.4	23569.7	22243.4	21187.4	20216.9	19972.1	20023.3	22078.3	17117.3
35°	28838.1	28510.8	27372.3	25957.7	24474.8	23228.2	22155.1	21822.1	21696.9	23760.4	17851.6
37.5°	30864.6	30858.9	30144.5	28704.3	27113.3	25738.6	24571.6	24181.7	23928.4	25792.6	18990.1
40°	30918.7	31052.5	31146.4	31132.2	29999.4	28732.8	27696.8	27215.8	26626.6	28508.0	20461.6
42.5°	29259.4	29603.8	30432.0	31838.1	32509.8	32006.0	31132.2	30659.7	29783.1	31414.0	22254.8
45°	27016.5	27255.6	28704.3	31294.4	33870.3	35250.7	34584.7	33739.3	32583.8	34445.2	23862.9
47.5°	26011.8	26054.5	26990.9	29834.3	33972.7	37909.1	38313.3	36938.5	35128.3	36887.3	25120.9
50°	23009.0	23085.9	24378.1	27304.0	32771.6	39164.3	42058.9	40755.3	37903.4	38768.7	25579.2
52.5°	17342.1	17450.3	19089.7	23145.6	29470.0	38629.2	44740.1	44424.1	40943.2	39688.0	25604.8
55°	10232.2	10374.5	11940.0	15580.3	23179.8	35225.1	44939.3	46100.6	43342.6	40231.6	25564.9
57.5°	4778.8	4878.5	5775.0	8026.4	14416.2	27839.1	41939.4	44950.7	44666.1	40519.1	25846.7
60°	2538.8	2567.3	2783.6	3475.3	6515.0	17652.4	36084.6	40590.2	43459.3	40917.6	26191.1
62.5°	1941.1	1949.7	1938.3	2020.8	2738.1	7835.7	27275.5	33369.3	38600.7	40618.7	25809.7
65°	1682.1	1696.4	1616.7	1596.7	1756.1	2795.0	16203.7	23786.0	30332.4	36585.6	23211.1
67.5°	1508.5	1514.2	1417.4	1334.9	1363.3	1511.4	6392.7	13021.6	20077.4	26817.3	16824.1
70°	1389.0	1383.3	1278.0	1147.0	1110.0	1033.2	2032.2	4773.1	9594.7	13599.3	7824.3
72.5°	1229.6	1232.4	1181.2	1010.4	922.2	722.9	942.1	1391.8	2863.3	3705.8	1833.0
75°	1090.1	1075.9	1013.3	905.1	759.9	475.3	466.8	620.5	882.3	876.6	395.6
77.5°	788.4	774.2	794.1	742.9	583.5	307.4	233.4	298.9	358.6	347.2	111.0
80°	577.8	569.2	512.3	617.6	515.2	210.6	145.2	159.4	185.0	156.5	34.2
82.5°	395.6	392.8	361.5	341.5	293.2	128.1	91.1	99.6	119.5	88.2	17.1
85°	62.6	71.2	261.9	207.8	173.6	56.9	62.6	68.3	79.7	48.4	5.7
87.5°	0.0	0.0	122.4	108.2	34.2	22.8	37.0	39.8	39.8	25.6	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13576.6	13576.6	13576.6	13576.6	13576.6	13576.6	13576.6	13576.6	13576.6	13576.6	13576.6
2.5°	13627.8	13343.2	12816.6	12273.0	11769.2	11168.7	10755.9	10445.7	10087.1	9990.3	10200.9
5°	13721.7	13183.8	12051.0	10818.6	9660.1	8376.5	7394.5	6617.5	5914.5	5675.4	5891.7
7.5°	13869.7	13069.9	11222.7	9193.4	7178.2	5174.5	3802.6	2900.3	2325.4	2154.6	2245.7
10°	14017.7	12904.9	10263.5	7269.3	4514.1	2518.9	1639.4	1309.3	1186.9	1161.3	1175.5
12.5°	14140.1	12682.9	9093.7	5168.8	2413.6	1349.1	1073.0	1019.0	1001.9	1001.9	1007.6
15°	14214.1	12347.0	7707.6	3287.4	1389.0	1019.0	936.4	919.3	919.3	922.2	927.9
17.5°	14205.6	11920.1	6190.6	1989.5	1038.9	902.3	853.9	839.6	836.8	842.5	845.3
20°	14100.3	11362.2	4667.8	1312.1	905.1	822.6	774.2	748.6	745.7	751.4	757.1
22.5°	13901.0	10673.4	3338.6	1010.4	816.9	745.7	685.9	663.2	663.2	668.9	674.6
25°	13659.1	9830.9	2282.7	856.7	737.2	663.2	606.2	586.3	592.0	606.2	609.1
27.5°	13357.4	8883.1	1551.2	734.3	640.4	580.6	537.9	523.7	537.9	557.9	563.6
30°	13098.4	7895.5	1107.2	634.7	543.6	500.9	475.3	475.3	495.2	532.2	540.8
32.5°	12899.2	6939.1	853.9	560.7	472.5	435.5	421.2	435.5	466.8	503.8	512.3
35°	12873.5	6150.7	722.9	500.9	421.2	384.2	378.6	404.2	435.5	463.9	469.6
37.5°	13069.9	5422.1	651.8	452.6	375.7	341.5	335.9	367.2	398.5	432.6	441.2
40°	13442.8	4850.0	600.6	407.0	338.7	301.7	290.3	313.1	355.8	401.3	412.7
42.5°	13926.7	4377.5	543.6	361.5	301.7	250.5	236.2	261.9	307.4	355.8	370.0
45°	14387.7	3970.5	481.0	310.2	253.3	193.5	187.9	222.0	244.8	293.2	304.5
47.5°	14641.1	3611.9	426.9	253.3	196.4	156.5	156.5	165.1	187.9	244.8	256.2
50°	14555.7	3324.4	370.0	187.9	136.6	119.5	119.5	116.7	150.9	196.4	204.9
52.5°	14384.9	3159.3	318.8	145.2	93.9	85.4	76.8	85.4	105.3	125.2	128.1
55°	14359.3	3130.9	267.5	116.7	65.5	56.9	42.7	42.7	42.7	39.8	34.2
57.5°	14558.5	3176.4	224.9	93.9	48.4	37.0	22.8	0.0	0.0	0.0	0.0
60°	14763.5	3224.8	193.5	65.5	34.2	19.9	2.8	0.0	0.0	0.0	0.0
62.5°	14421.9	3116.6	162.2	39.8	25.6	8.5	0.0	0.0	0.0	0.0	0.0
65°	12668.6	2652.7	128.1	28.5	17.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9011.2	1776.1	85.4	17.1	2.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	4112.8	742.9	54.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	879.5	230.5	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	179.3	167.9	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	56.9	264.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	34.2	190.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.7	28.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)