

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: P191726

Luminaire Tested: **GLEON-AF-08-LED-E1-AFL-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191726
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-08-LED-E1-AFL-7050-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 800mA 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: 31552 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 334
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

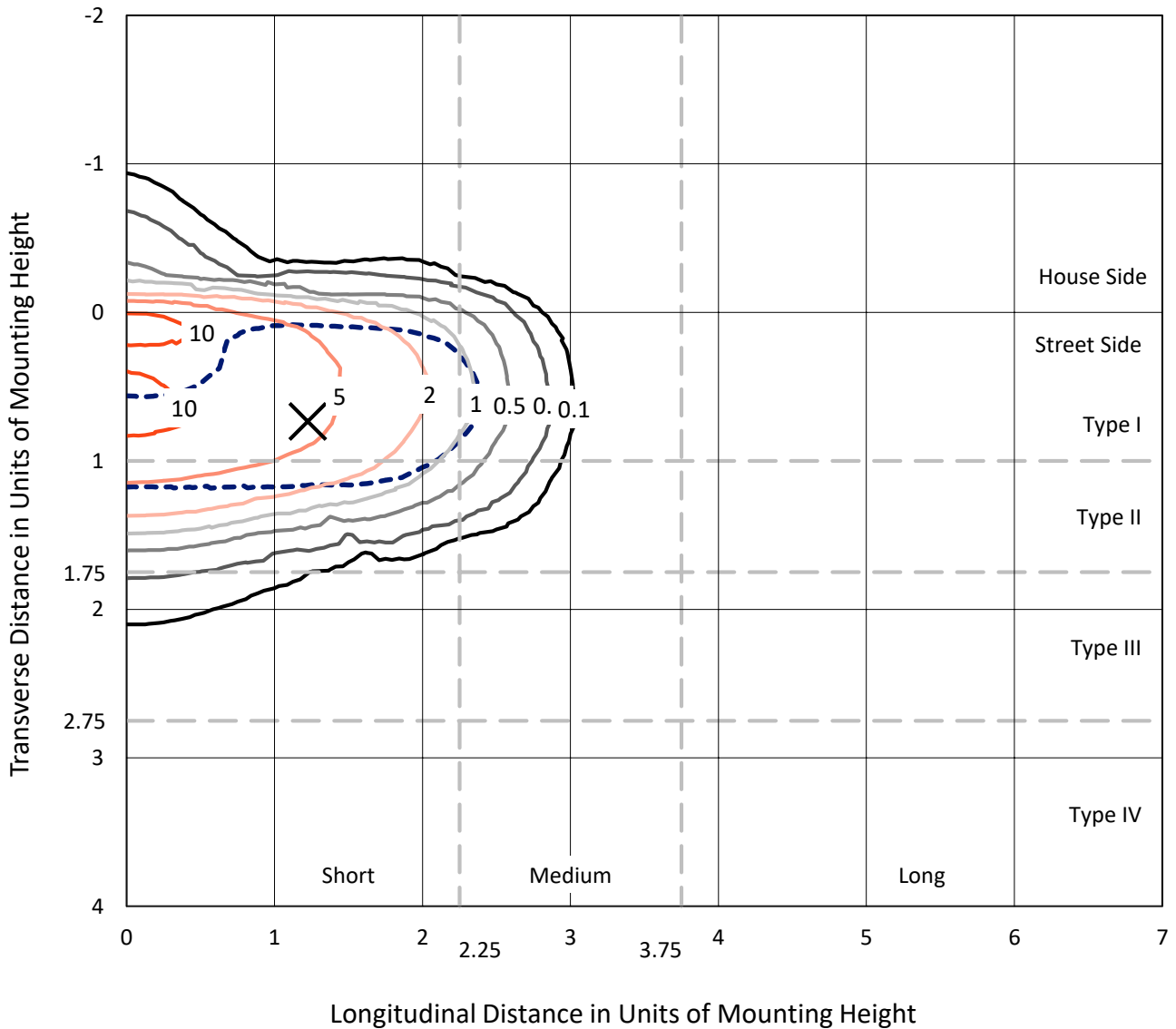


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

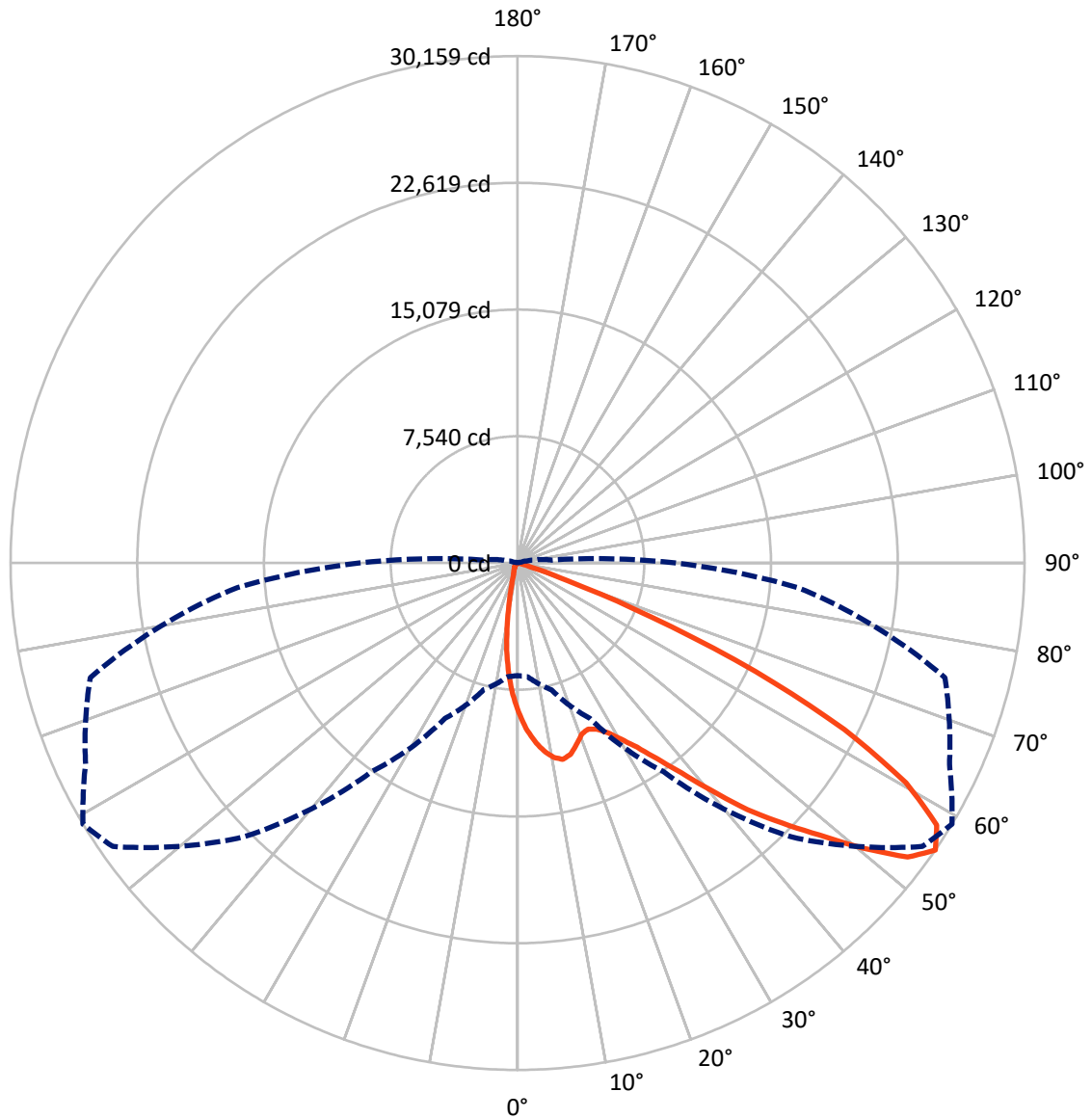


Based on 30 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - Full Cutoff

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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	1762.4	0.0	1762.4
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	29789.6	0.0	29789.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	31552.0	0.0	31552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	743.9	2.4
10°-20°	1781.2	5.6
20°-30°	3030.9	9.6
30°-40°	5212.5	16.5
40°-50°	8047.6	25.5
50°-60°	8090.4	25.6
60°-70°	4148.8	13.1
70°-80°	449.6	1.4
80°-90°	47.0	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°	31552.0	100.0
0°-180°	31552.0	100.0

Coefficient of Utilization



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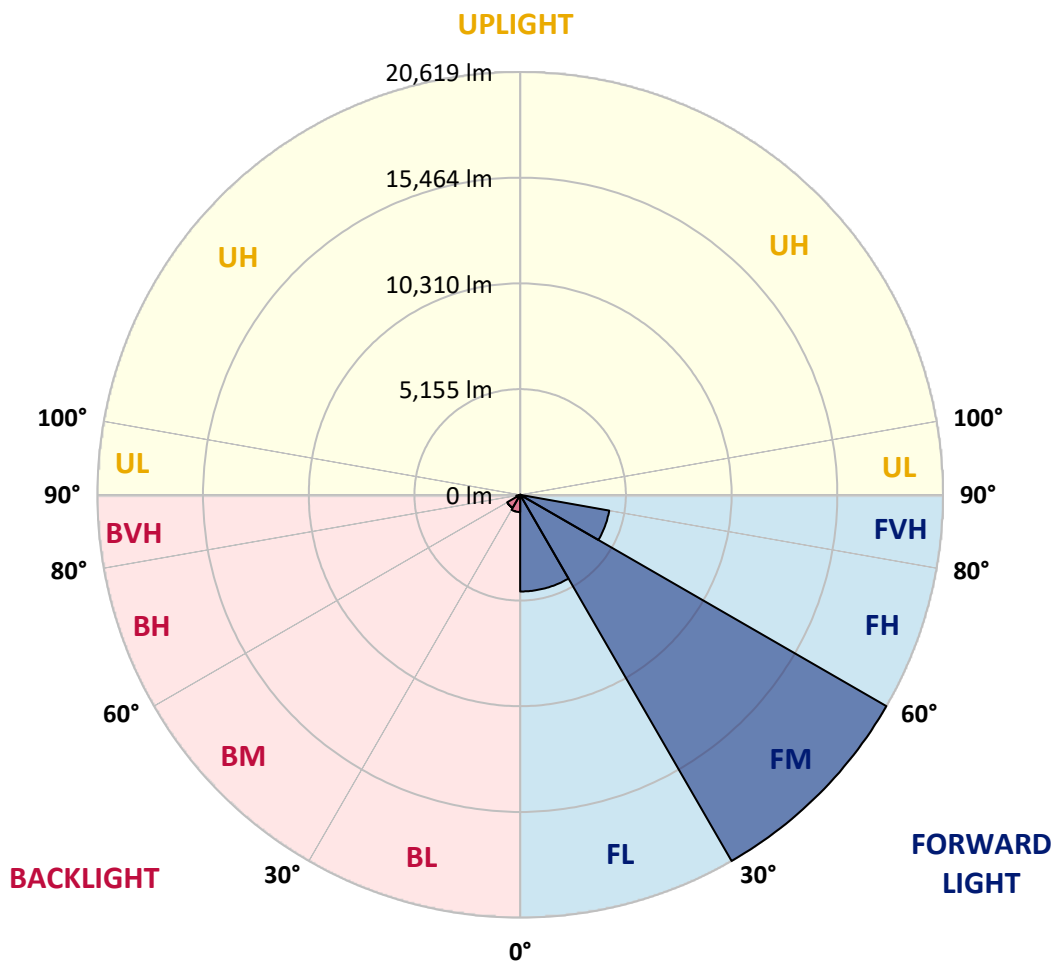
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4714.9	14.9			
FM	(30°-60°)	20619.1	65.3			
FH	(60°-80°)	4409.6	14.0			G2/5000
FVH	(80°-90°)	46.0	0.1			G1/100
BL	(0°-30°)	841.2	2.7	B2/1000		
BM	(30°-60°)	731.4	2.3	B1/1000		
BH	(60°-80°)	188.8	0.6	B1/500		G1/500
BVH	(80°-90°)	1.0	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°	55°	59°	65°	75°	85°
0°	8881.8	8881.8	8881.8	8881.8	8881.8	8881.8	8881.8	8881.8	8881.8	8881.8	8881.8
2.5°	10509.2	10397.4	10363.9	10341.6	10239.2	10110.7	9935.7	9853.7	9686.2	9416.2	9084.7
5°	11471.8	11451.3	11376.9	11335.9	11226.0	11043.6	10764.3	10630.2	10363.9	9909.6	9315.6
7.5°	11051.0	11179.5	11281.9	11453.2	11669.2	11661.8	11427.1	11287.5	10989.6	10390.0	9572.6
10°	9425.5	9529.8	9697.3	10086.5	10879.7	11579.8	11855.4	11754.9	11516.5	10831.3	9820.2
12.5°	9107.1	9095.9	9125.7	9239.3	9654.5	10652.5	11782.8	11985.7	11937.3	11235.4	10054.8
15°	9276.5	9263.5	9259.8	9298.9	9399.4	9820.2	11237.2	11820.0	12194.3	11609.6	10254.1
17.5°	9751.3	9695.5	9665.7	9634.0	9604.2	9708.5	10581.8	11356.4	12233.4	11937.3	10419.8
20°	10565.0	10471.9	10362.1	10183.3	10015.7	9963.6	10306.2	10879.7	12093.7	12186.8	10527.8
22.5°	11587.3	11468.1	11278.2	10952.3	10611.6	10414.2	10442.1	10728.9	11885.2	12458.7	10578.1
25°	12736.1	12583.4	12330.2	11877.7	11376.9	11026.8	10844.3	10944.9	11790.2	12777.1	10635.8
27.5°	13966.9	13797.5	13466.0	12849.7	12281.8	11808.8	11436.4	11423.4	11952.2	13194.2	10728.9
30°	15186.5	15160.5	14728.5	14076.8	13324.5	12749.2	12212.9	12144.0	12404.7	13771.4	10913.2
32.5°	16813.9	16618.4	16089.6	15419.3	14551.6	13860.8	13225.8	13065.7	13099.2	14443.6	11198.1
35°	18865.9	18651.7	17906.9	16981.5	16011.4	15195.8	14493.9	14276.0	14194.1	15544.0	11678.5
37.5°	20191.6	20187.9	19720.5	18778.3	17737.5	16838.1	16074.7	15819.6	15653.9	16873.5	12423.3
40°	20227.0	20314.5	20375.9	20366.6	19625.6	18797.0	18119.2	17804.5	17419.1	18649.9	13386.0
42.5°	19141.4	19366.7	19908.6	20828.4	21267.8	20938.3	20366.6	20057.5	19484.0	20551.0	14559.0
45°	17674.2	17830.6	18778.3	20472.8	22157.9	23061.0	22625.2	22072.2	21316.3	22534.0	15611.1
47.5°	17016.9	17044.8	17657.4	19517.6	22224.9	24800.1	25064.5	24165.1	22980.9	24131.6	16434.1
50°	15052.5	15102.7	15948.1	17862.2	21439.2	25621.2	27514.9	26662.1	24796.3	25362.4	16733.9
52.5°	11345.2	11416.0	12488.5	15141.8	19279.2	25271.2	29268.9	29062.2	26785.0	25963.8	16750.6
55°	6693.9	6787.0	7811.1	10192.6	15164.2	23044.2	29399.2	30158.9	28354.6	26319.5	16724.5
57.5°	3126.3	3191.5	3778.0	5250.9	9431.1	18212.3	27436.7	29406.7	29220.5	26507.5	16908.9
60°	1660.9	1679.5	1821.0	2273.5	4262.1	11548.2	23606.5	26554.1	28431.0	26768.2	17134.2
62.5°	1269.9	1275.5	1268.0	1322.0	1791.3	5126.1	17843.6	21830.2	25252.5	26572.7	16884.7
65°	1100.4	1109.8	1057.6	1044.6	1148.9	1828.5	10600.4	15560.8	19843.4	23934.2	15184.7
67.5°	986.9	990.6	927.3	873.3	891.9	988.7	4182.1	8518.7	13134.6	17543.8	11006.3
70°	908.7	904.9	836.0	750.4	726.2	675.9	1329.5	3122.6	6276.8	8896.7	5118.7
72.5°	804.4	806.2	772.7	661.0	603.3	472.9	616.3	910.5	1873.2	2424.3	1199.1
75°	713.1	703.8	662.9	592.1	497.2	311.0	305.4	405.9	577.2	573.5	258.8
77.5°	515.8	506.5	519.5	486.0	381.7	201.1	152.7	195.5	234.6	227.2	72.6
80°	378.0	372.4	335.2	404.1	337.0	137.8	95.0	104.3	121.0	102.4	22.3
82.5°	258.8	257.0	236.5	223.4	191.8	83.8	59.6	65.2	78.2	57.7	11.2
85°	41.0	46.6	171.3	135.9	113.6	37.2	41.0	44.7	52.1	31.7	3.7
87.5°	0.0	0.0	80.1	70.8	22.3	14.9	24.2	26.1	26.1	16.8	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°	8881.8	8881.8	8881.8	8881.8	8881.8	8881.8	8881.8	8881.8	8881.8	8881.8	8881.8
2.5°	8915.3	8729.1	8384.6	8029.0	7699.4	7306.5	7036.5	6833.6	6599.0	6535.6	6673.4
5°	8976.7	8624.8	7883.7	7077.5	6319.7	5479.9	4837.5	4329.2	3869.3	3712.8	3854.4
7.5°	9073.6	8550.3	7341.9	6014.3	4696.0	3385.1	2487.6	1897.4	1521.3	1409.5	1469.1
10°	9170.4	8442.3	6714.4	4755.6	2953.1	1647.9	1072.5	856.5	776.5	759.7	769.0
12.5°	9250.5	8297.1	5949.1	3381.4	1579.0	882.6	702.0	666.6	655.4	655.4	659.2
15°	9298.9	8077.4	5042.3	2150.6	908.7	666.6	612.6	601.4	601.4	603.3	607.0
17.5°	9293.3	7798.1	4049.9	1301.5	679.6	590.3	558.6	549.3	547.4	551.2	553.0
20°	9224.4	7433.1	3053.7	858.4	592.1	538.1	506.5	489.7	487.8	491.6	495.3
22.5°	9094.0	6982.5	2184.1	661.0	534.4	487.8	448.7	433.8	433.8	437.6	441.3
25°	8935.8	6431.4	1493.3	560.5	482.3	433.8	396.6	383.6	387.3	396.6	398.5
27.5°	8738.4	5811.3	1014.8	480.4	419.0	379.8	351.9	342.6	351.9	365.0	368.7
30°	8569.0	5165.2	724.3	415.2	355.6	327.7	311.0	311.0	324.0	348.2	353.8
32.5°	8438.6	4539.6	558.6	366.8	309.1	284.9	275.6	284.9	305.4	329.6	335.2
35°	8421.9	4023.8	472.9	327.7	275.6	251.4	247.6	264.4	284.9	303.5	307.2
37.5°	8550.3	3547.1	426.4	296.1	245.8	223.4	219.7	240.2	260.7	283.0	288.6
40°	8794.3	3172.9	392.9	266.3	221.6	197.4	189.9	204.8	232.8	262.5	270.0
42.5°	9110.8	2863.8	355.6	236.5	197.4	163.9	154.5	171.3	201.1	232.8	242.1
45°	9412.4	2597.5	314.7	203.0	165.7	126.6	122.9	145.2	160.1	191.8	199.2
47.5°	9578.2	2362.9	279.3	165.7	128.5	102.4	102.4	108.0	122.9	160.1	167.6
50°	9522.3	2174.8	242.1	122.9	89.4	78.2	78.2	76.3	98.7	128.5	134.1
52.5°	9410.6	2066.8	208.5	95.0	61.4	55.9	50.3	55.9	68.9	81.9	83.8
55°	9393.8	2048.2	175.0	76.3	42.8	37.2	27.9	27.9	27.9	26.1	22.3
57.5°	9524.2	2078.0	147.1	61.4	31.7	24.2	14.9	0.0	0.0	0.0	0.0
60°	9658.2	2109.7	126.6	42.8	22.3	13.0	1.9	0.0	0.0	0.0	0.0
62.5°	9434.8	2038.9	106.1	26.1	16.8	5.6	0.0	0.0	0.0	0.0	0.0
65°	8287.8	1735.4	83.8	18.6	11.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5895.1	1161.9	55.9	11.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	2690.6	486.0	35.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	575.4	150.8	24.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	117.3	109.9	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	37.2	173.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	22.3	124.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.7	18.6	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)