

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: P193462

Luminaire Tested: **GLEON-AF-04-LED-E1-AFL-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193462
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-04-LED-E1-AFL-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 12959 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 171
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

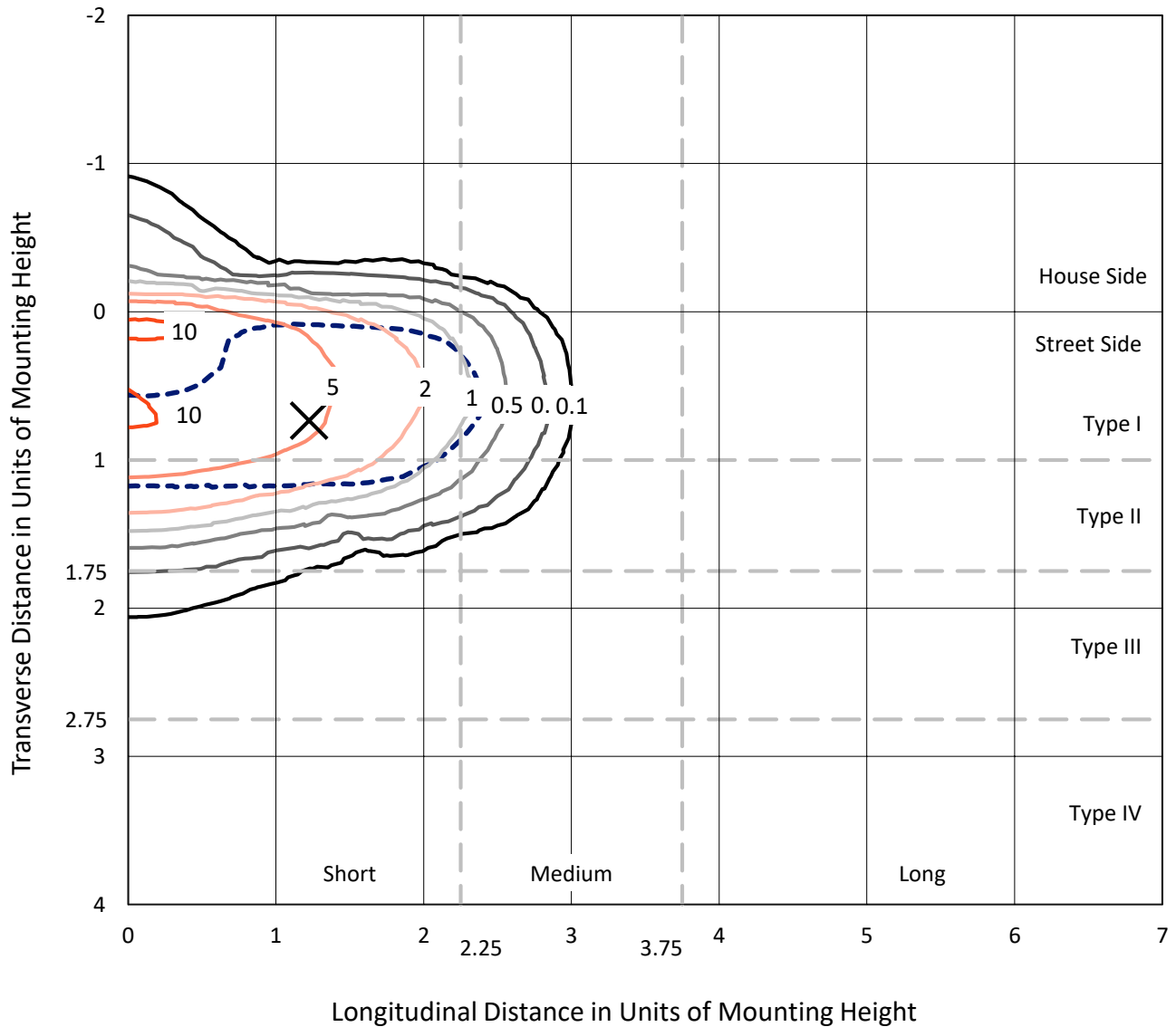


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

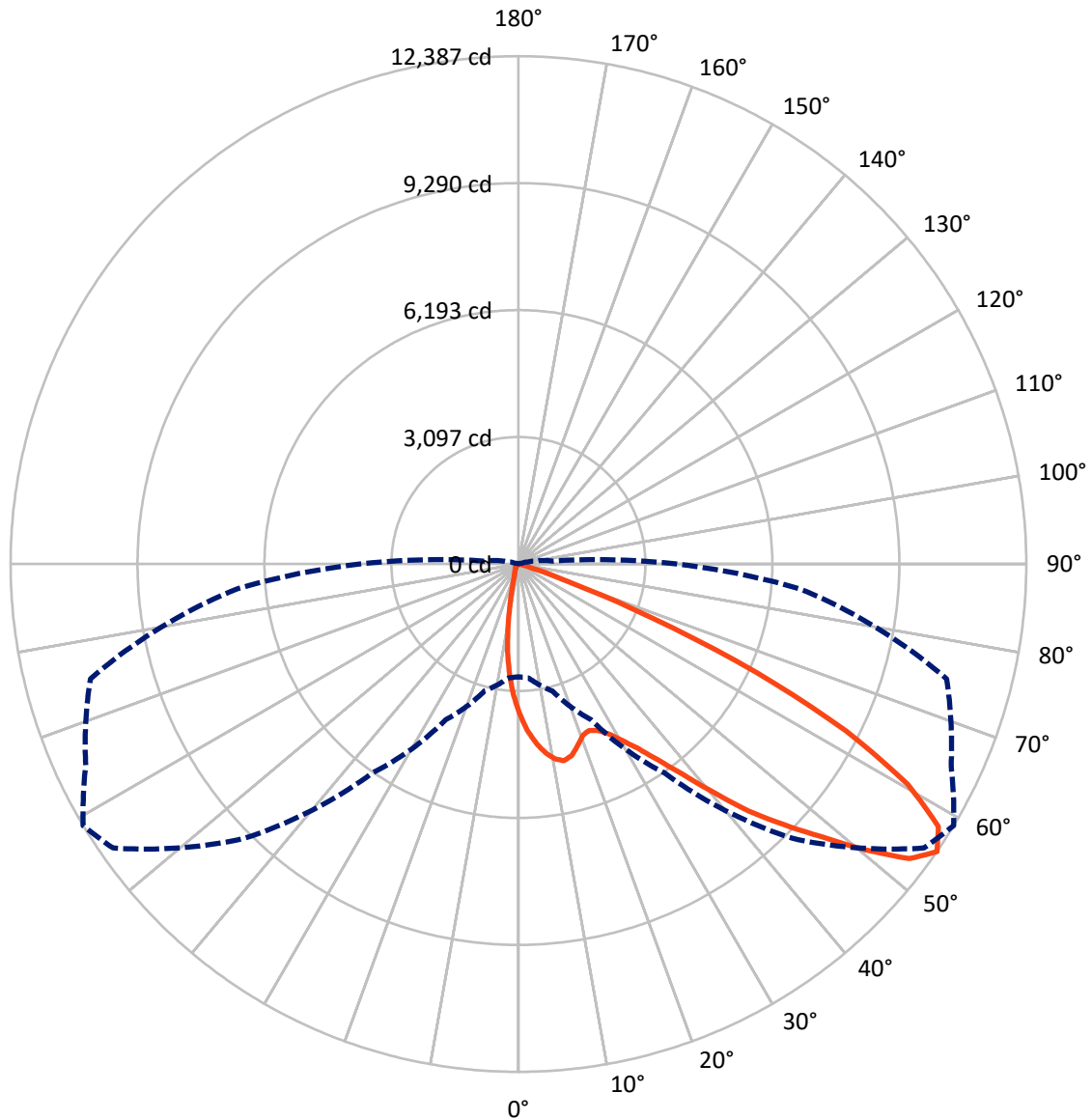


Based on 20 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - Full Cutoff

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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	723.8	0.0	723.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	12235.2	0.0	12235.2
	% Fixture	94.4	0.0	94.4
Total	Lumens	12959.0	0.0	12959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.5	2.4
10°-20°	731.6	5.6
20°-30°	1244.9	9.6
30°-40°	2140.9	16.5
40°-50°	3305.3	25.5
50°-60°	3322.9	25.6
60°-70°	1704.0	13.1
70°-80°	184.7	1.4
80°-90°	19.3	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°	12959.0	100.0
0°-180°	12959.0	100.0

Coefficient of Utilization



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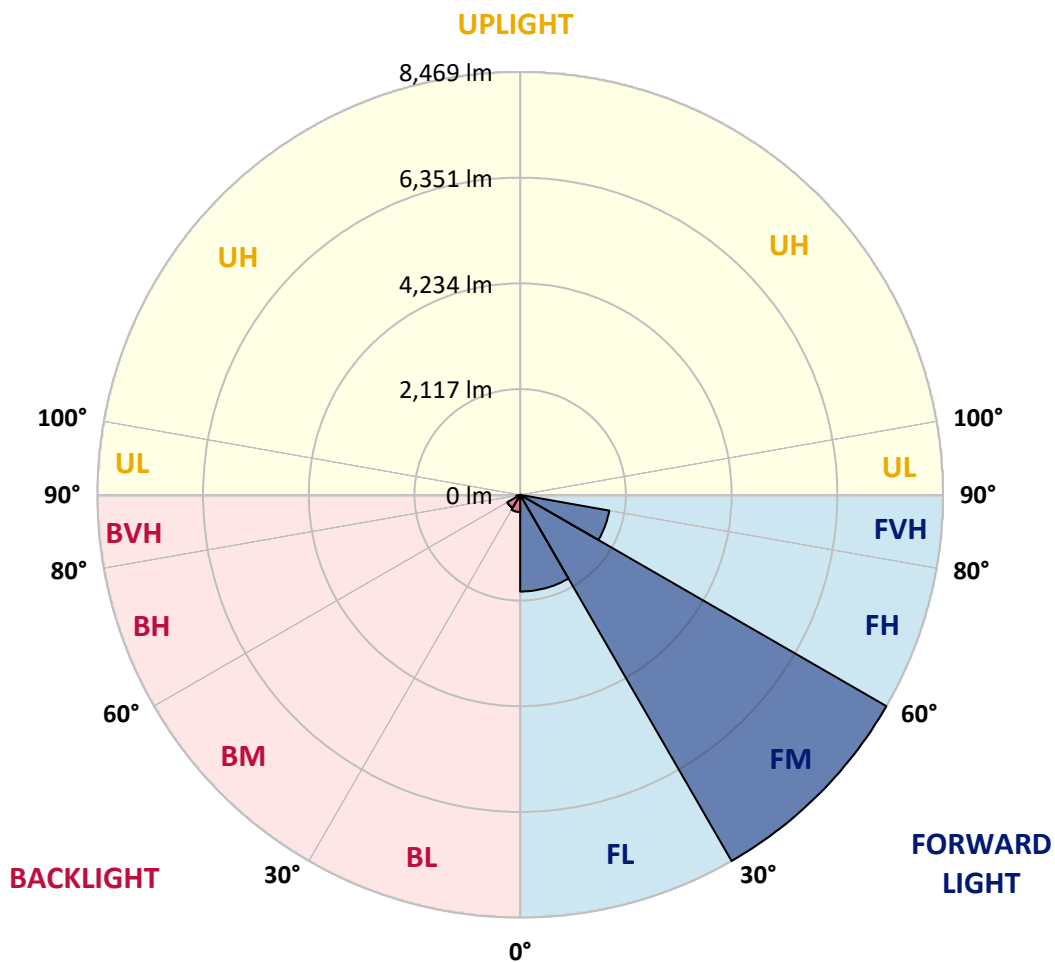
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1936.5	14.9			
FM (30°-60°)	8468.7	65.3			
FH (60°-80°)	1811.1	14.0			G2/5000
FVH (80°-90°)	18.9	0.1			G1/100
BL (0°-30°)	345.5	2.7	B1/500		
BM (30°-60°)	300.4	2.3	B1/1000		
BH (60°-80°)	77.5	0.6	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9
2.5°	4316.3	4270.4	4256.7	4247.5	4205.4	4152.7	4080.8	4047.1	3978.3	3867.4	3731.3
5°	4711.7	4703.3	4672.7	4655.9	4610.7	4535.8	4421.1	4366.0	4256.7	4070.1	3826.1
7.5°	4538.9	4591.6	4633.7	4704.0	4792.8	4789.7	4693.3	4636.0	4513.6	4267.4	3931.6
10°	3871.2	3914.0	3982.9	4142.7	4468.5	4756.1	4869.2	4827.9	4730.0	4448.6	4033.4
12.5°	3740.4	3735.9	3748.1	3794.7	3965.3	4375.2	4839.4	4922.8	4902.9	4614.6	4129.7
15°	3810.0	3804.7	3803.2	3819.2	3860.5	4033.4	4615.3	4854.7	5008.4	4768.3	4211.5
17.5°	4005.1	3982.1	3969.9	3956.9	3944.6	3987.5	4346.1	4664.3	5024.5	4902.9	4279.6
20°	4339.3	4301.0	4255.9	4182.5	4113.7	4092.2	4233.0	4468.5	4967.1	5005.4	4324.0
22.5°	4759.1	4710.2	4632.2	4498.3	4358.4	4277.3	4288.8	4406.6	4881.5	5117.0	4344.6
25°	5231.0	5168.3	5064.2	4878.4	4672.7	4528.9	4454.0	4495.3	4842.5	5247.8	4368.3
27.5°	5736.5	5666.9	5530.8	5277.6	5044.4	4850.1	4697.2	4691.8	4909.0	5419.1	4406.6
30°	6237.4	6226.7	6049.3	5781.6	5472.6	5236.3	5016.1	4987.8	5094.8	5656.2	4482.3
32.5°	6905.8	6825.5	6608.3	6333.0	5976.6	5692.9	5432.1	5366.3	5380.1	5932.3	4599.3
35°	7748.6	7660.6	7354.7	6974.6	6576.2	6241.2	5952.9	5863.4	5829.8	6384.2	4796.6
37.5°	8293.1	8291.5	8099.6	7712.6	7285.1	6915.7	6602.2	6497.4	6429.3	6930.3	5102.5
40°	8307.6	8343.5	8368.8	8365.0	8060.6	7720.3	7441.9	7312.6	7154.3	7659.8	5497.9
42.5°	7861.7	7954.3	8176.8	8554.6	8735.1	8599.7	8365.0	8238.0	8002.5	8440.7	5979.7
45°	7259.1	7323.4	7712.6	8408.6	9100.7	9471.6	9292.6	9065.5	8755.0	9255.1	6411.8
47.5°	6989.2	7000.6	7252.2	8016.2	9128.2	10185.9	10294.5	9925.1	9438.7	9911.3	6749.8
50°	6182.3	6203.0	6550.2	7336.4	8805.5	10523.1	11300.9	10950.6	10184.3	10416.8	6872.9
52.5°	4659.7	4688.8	5129.3	6219.0	7918.3	10379.3	12021.3	11936.4	11001.1	10663.8	6879.8
55°	2749.3	2787.6	3208.2	4186.3	6228.2	9464.7	12074.8	12386.8	11645.8	10809.9	6869.1
57.5°	1284.0	1310.8	1551.7	2156.6	3873.5	7480.1	11268.8	12077.9	12001.4	10887.1	6944.8
60°	682.2	689.8	747.9	933.8	1750.5	4743.0	9695.6	10906.3	11677.1	10994.2	7037.3
62.5°	521.6	523.9	520.8	543.0	735.7	2105.4	7328.7	8966.1	10371.7	10913.9	6934.9
65°	452.0	455.8	434.4	429.0	471.9	751.0	4353.8	6391.1	8150.1	9830.2	6236.6
67.5°	405.3	406.9	380.9	358.7	366.3	406.1	1717.7	3498.8	5394.6	7205.6	4520.5
70°	373.2	371.7	343.4	308.2	298.3	277.6	546.0	1282.5	2578.0	3654.0	2102.3
72.5°	330.4	331.1	317.4	271.5	247.8	194.2	253.1	374.0	769.3	995.7	492.5
75°	292.9	289.1	272.3	243.2	204.2	127.7	125.4	166.7	237.1	235.5	106.3
77.5°	211.8	208.0	213.4	199.6	156.8	82.6	62.7	80.3	96.4	93.3	29.8
80°	155.2	153.0	137.7	166.0	138.4	56.6	39.0	42.8	49.7	42.1	9.2
82.5°	106.3	105.5	97.1	91.8	78.8	34.4	24.5	26.8	32.1	23.7	4.6
85°	16.8	19.1	70.4	55.8	46.7	15.3	16.8	18.4	21.4	13.0	1.5
87.5°	0.0	0.0	32.9	29.1	9.2	6.1	9.9	10.7	10.7	6.9	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°	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9
2.5°	3661.7	3585.2	3443.7	3297.7	3162.3	3000.9	2890.0	2806.7	2710.3	2684.3	2740.9
5°	3686.9	3542.4	3238.0	2906.9	2595.6	2250.7	1986.9	1778.1	1589.2	1524.9	1583.1
7.5°	3726.7	3511.8	3015.5	2470.2	1928.7	1390.3	1021.7	779.3	624.8	578.9	603.4
10°	3766.4	3467.4	2757.7	1953.2	1212.9	676.8	440.5	351.8	318.9	312.0	315.8
12.5°	3799.3	3407.8	2443.4	1388.8	648.5	362.5	288.3	273.8	269.2	269.2	270.7
15°	3819.2	3317.5	2071.0	883.3	373.2	273.8	251.6	247.0	247.0	247.8	249.3
17.5°	3816.9	3202.8	1663.4	534.6	279.1	242.4	229.4	225.6	224.8	226.4	227.1
20°	3788.6	3052.9	1254.2	352.6	243.2	221.0	208.0	201.1	200.4	201.9	203.4
22.5°	3735.1	2867.9	897.1	271.5	219.5	200.4	184.3	178.2	178.2	179.7	181.2
25°	3670.1	2641.5	613.3	230.2	198.1	178.2	162.9	157.5	159.1	162.9	163.7
27.5°	3589.0	2386.8	416.8	197.3	172.1	156.0	144.5	140.7	144.5	149.9	151.4
30°	3519.4	2121.4	297.5	170.5	146.1	134.6	127.7	127.7	133.1	143.0	145.3
32.5°	3465.9	1864.5	229.4	150.7	127.0	117.0	113.2	117.0	125.4	135.4	137.7
35°	3459.0	1652.6	194.2	134.6	113.2	103.2	101.7	108.6	117.0	124.7	126.2
37.5°	3511.8	1456.9	175.1	121.6	100.9	91.8	90.2	98.7	107.1	116.2	118.5
40°	3612.0	1303.2	161.4	109.4	91.0	81.1	78.0	84.1	95.6	107.8	110.9
42.5°	3742.0	1176.2	146.1	97.1	81.1	67.3	63.5	70.4	82.6	95.6	99.4
45°	3865.9	1066.8	129.2	83.4	68.1	52.0	50.5	59.7	65.8	78.8	81.8
47.5°	3933.9	970.5	114.7	68.1	52.8	42.1	42.1	44.4	50.5	65.8	68.8
50°	3911.0	893.2	99.4	50.5	36.7	32.1	32.1	31.4	40.5	52.8	55.1
52.5°	3865.1	848.9	85.7	39.0	25.2	22.9	20.6	22.9	28.3	33.6	34.4
55°	3858.2	841.2	71.9	31.4	17.6	15.3	11.5	11.5	11.5	10.7	9.2
57.5°	3911.8	853.5	60.4	25.2	13.0	9.9	6.1	0.0	0.0	0.0	0.0
60°	3966.8	866.5	52.0	17.6	9.2	5.4	0.8	0.0	0.0	0.0	0.0
62.5°	3875.0	837.4	43.6	10.7	6.9	2.3	0.0	0.0	0.0	0.0	0.0
65°	3404.0	712.8	34.4	7.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2421.2	477.2	22.9	4.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	1105.1	199.6	14.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	236.3	61.9	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	48.2	45.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	15.3	71.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.2	51.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.5	7.6	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)