

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: P193455

Luminaire Tested: **GLEON-AF-07-LED-E1-AFL-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193455
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-07-LED-E1-AFL-8030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA 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: 18530 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 226
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

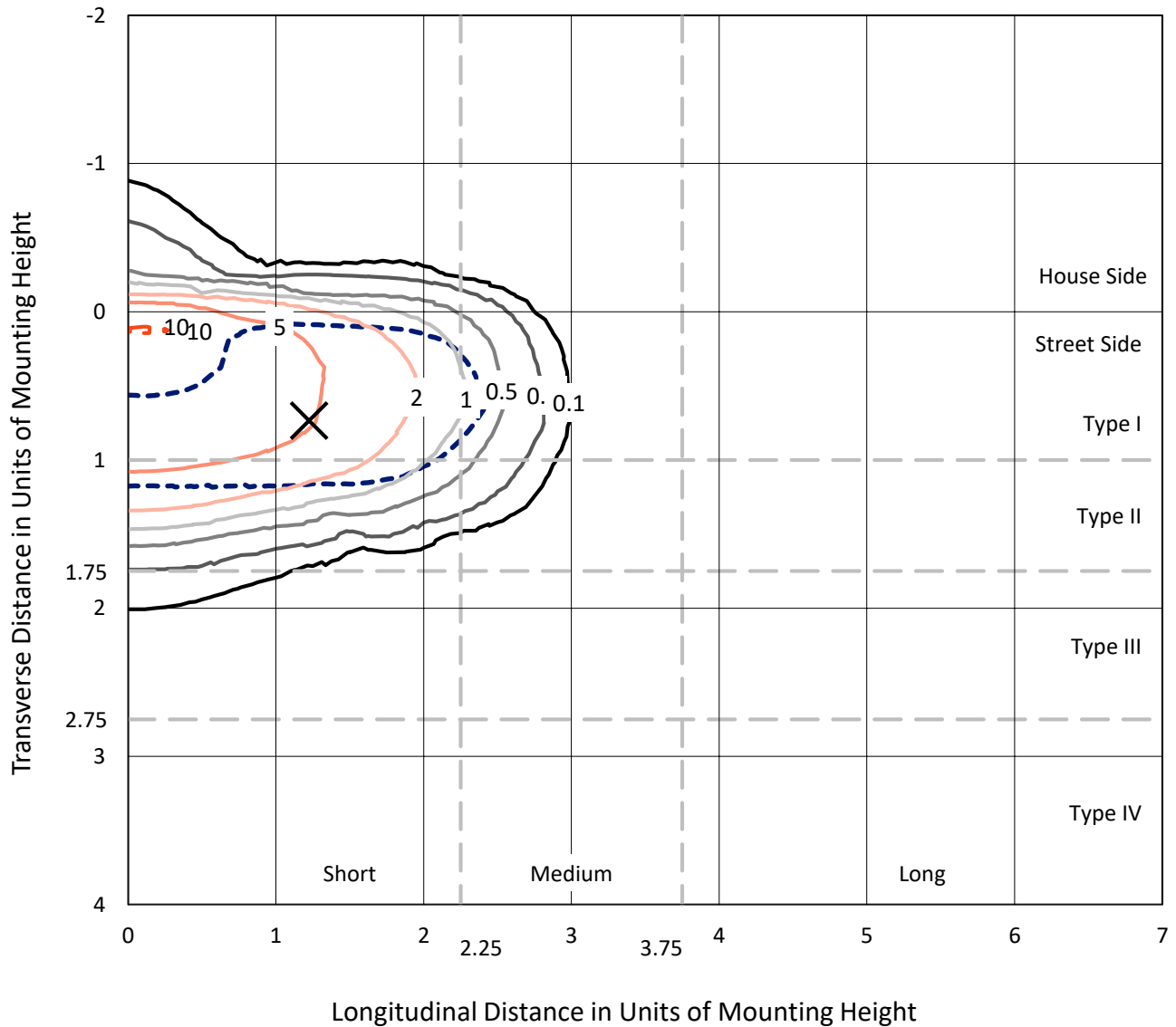


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Iso-Footcandle Lines of Horizontal Illumination

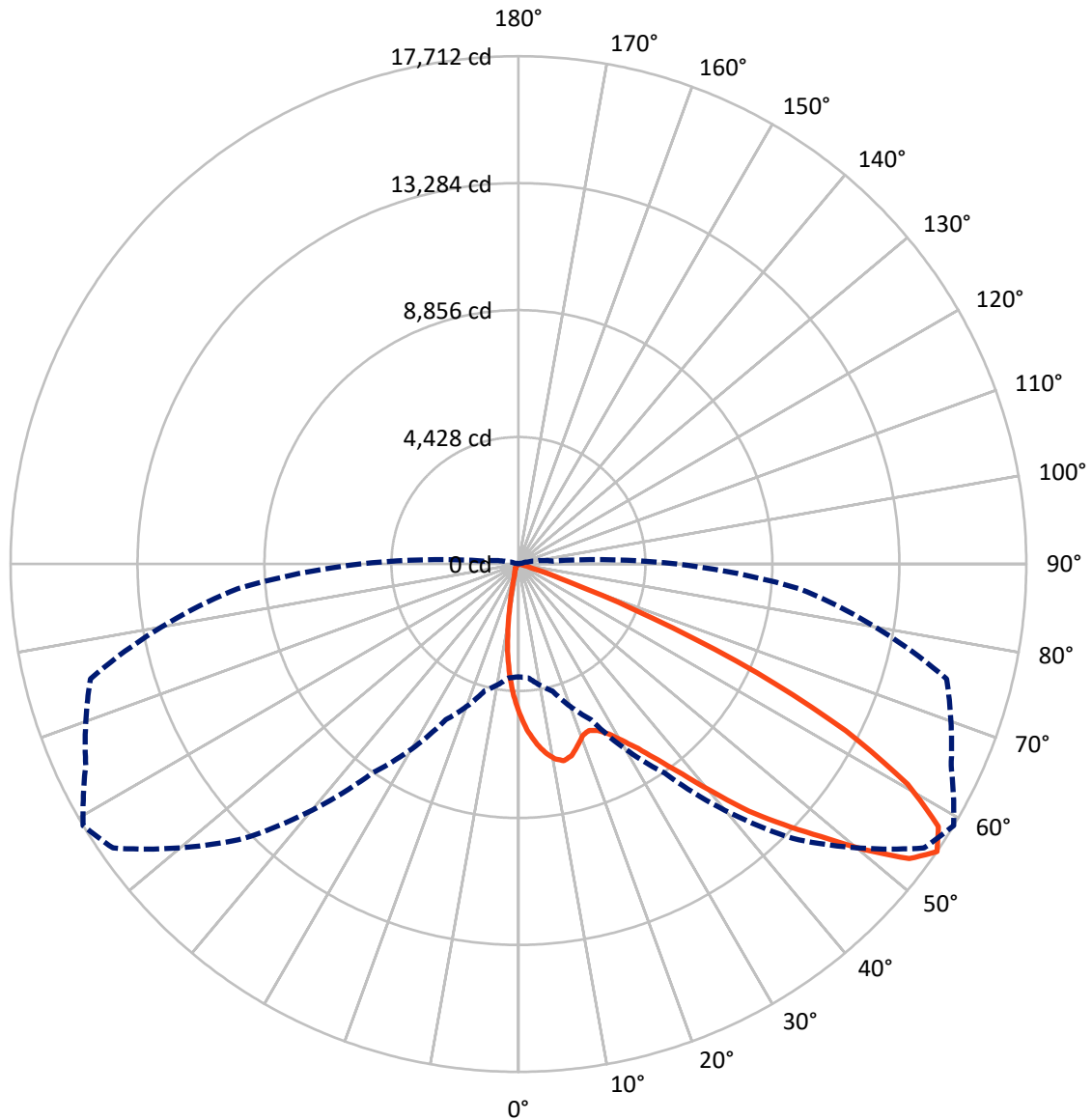
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	1035.0	0.0	1035.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	17495.0	0.0	17495.0
	% Fixture	94.4	0.0	94.4
Total	Lumens	18530.0	0.0	18530.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.9	2.4
10°-20°	1046.1	5.6
20°-30°	1780.0	9.6
30°-40°	3061.2	16.5
40°-50°	4726.2	25.5
50°-60°	4751.4	25.6
60°-70°	2436.5	13.1
70°-80°	264.1	1.4
80°-90°	27.6	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°	18530.0	100.0
0°-180°	18530.0	100.0



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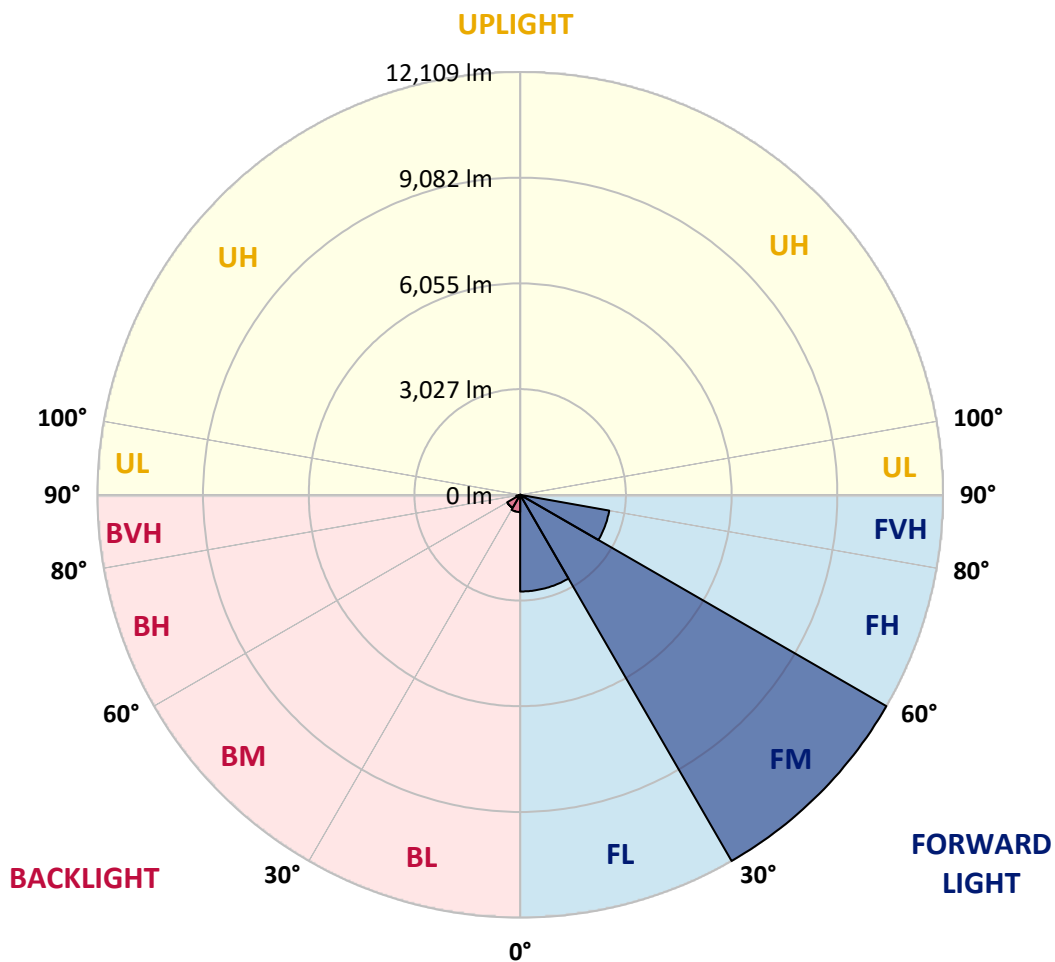
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2769.0	14.9			
FM (30°-60°)	12109.3	65.3			
FH (60°-80°)	2589.7	14.0			G2/5000
FVH (80°-90°)	27.0	0.1			G1/100
BL (0°-30°)	494.0	2.7	B1/500		
BM (30°-60°)	429.5	2.3	B1/1000		
BH (60°-80°)	110.9	0.6	B1/500		G1/500
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	5216.1	5216.1	5216.1	5216.1	5216.1	5216.1	5216.1	5216.1	5216.1	5216.1	5216.1
2.5°	6171.9	6106.3	6086.6	6073.5	6013.3	5937.9	5835.1	5786.9	5688.5	5530.0	5335.3
5°	6737.2	6725.2	6681.5	6657.4	6592.9	6485.7	6321.7	6243.0	6086.6	5819.8	5470.9
7.5°	6490.1	6565.5	6625.7	6726.3	6853.1	6848.8	6711.0	6629.0	6454.0	6101.9	5621.8
10°	5535.4	5596.7	5695.1	5923.6	6389.5	6800.7	6962.5	6903.4	6763.5	6361.1	5767.3
12.5°	5348.4	5341.9	5359.4	5426.1	5669.9	6256.1	6919.8	7039.0	7010.6	6598.3	5905.1
15°	5448.0	5440.3	5438.1	5461.1	5520.1	5767.3	6599.4	6941.7	7161.5	6818.1	6022.1
17.5°	5726.8	5694.0	5676.5	5657.9	5640.4	5701.7	6214.5	6669.4	7184.5	7010.6	6119.4
20°	6204.7	6150.0	6085.5	5980.5	5882.1	5851.5	6052.7	6389.5	7102.5	7157.1	6182.8
22.5°	6805.0	6735.0	6623.5	6432.1	6232.0	6116.1	6132.5	6300.9	6980.0	7316.8	6212.3
25°	7479.7	7390.1	7241.3	6975.6	6681.5	6475.9	6368.7	6427.8	6924.2	7503.8	6246.2
27.5°	8202.6	8103.0	7908.4	7546.4	7212.9	6935.2	6716.4	6708.8	7019.4	7748.7	6300.9
30°	8918.8	8903.5	8649.8	8267.1	7825.3	7487.4	7172.4	7132.0	7285.1	8087.7	6409.2
32.5°	9874.6	9759.7	9449.2	9055.5	8545.9	8140.2	7767.3	7673.3	7693.0	8482.5	6576.5
35°	11079.6	10953.9	10516.5	9973.0	9403.2	8924.3	8512.0	8384.1	8336.0	9128.8	6858.6
37.5°	11858.2	11856.0	11581.6	11028.2	10416.9	9888.8	9440.4	9290.6	9193.3	9909.5	7296.0
40°	11879.0	11930.4	11966.5	11961.0	11525.8	11039.2	10641.1	10456.3	10230.0	10952.8	7861.4
42.5°	11241.5	11373.8	11692.0	12232.2	12490.3	12296.7	11961.0	11779.5	11442.7	12069.3	8550.3
45°	10379.8	10471.6	11028.2	12023.3	13013.0	13543.3	13287.5	12962.7	12518.7	13233.9	9168.1
47.5°	9993.8	10010.2	10369.9	11462.4	13052.3	14564.7	14720.0	14191.8	13496.3	14172.1	9651.5
50°	8840.1	8869.6	9366.1	10490.2	12590.9	15046.9	16159.1	15658.2	14562.5	14894.9	9827.5
52.5°	6662.9	6704.4	7334.3	8892.6	11322.4	14841.4	17189.2	17067.8	15730.4	15248.2	9837.4
55°	3931.2	3985.9	4587.3	5986.0	8905.7	13533.5	17265.7	17711.9	16652.2	15457.0	9822.1
57.5°	1836.0	1874.3	2218.8	3083.7	5538.7	10695.8	16113.1	17270.1	17160.7	15567.5	9930.3
60°	975.4	986.4	1069.5	1335.2	2503.1	6782.1	13863.7	15594.8	16697.1	15720.6	10062.6
62.5°	745.8	749.1	744.7	776.4	1052.0	3010.5	10479.3	12820.5	14830.4	15605.7	9916.1
65°	646.3	651.7	621.1	613.5	674.7	1073.8	6225.5	9138.6	11653.7	14056.2	8917.7
67.5°	579.6	581.8	544.6	512.9	523.8	580.7	2456.1	5002.9	7713.7	10303.2	6463.8
70°	533.6	531.5	491.0	440.7	426.5	397.0	780.8	1833.8	3686.3	5224.9	3006.1
72.5°	472.4	473.5	453.8	388.2	354.3	277.8	362.0	534.7	1100.1	1423.8	704.2
75°	418.8	413.4	389.3	347.7	292.0	182.6	179.3	238.4	339.0	336.8	152.0
77.5°	302.9	297.4	305.1	285.4	224.2	118.1	89.7	114.8	137.8	133.4	42.6
80°	222.0	218.7	196.8	237.3	197.9	80.9	55.8	61.2	71.1	60.1	13.1
82.5°	152.0	150.9	138.9	131.2	112.6	49.2	35.0	38.3	45.9	33.9	6.6
85°	24.1	27.3	100.6	79.8	66.7	21.9	24.1	26.2	30.6	18.6	2.2
87.5°	0.0	0.0	47.0	41.6	13.1	8.7	14.2	15.3	15.3	9.8	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°	5216.1	5216.1	5216.1	5216.1	5216.1	5216.1	5216.1	5216.1	5216.1	5216.1	5216.1
2.5°	5235.8	5126.5	4924.2	4715.3	4521.7	4291.0	4132.4	4013.2	3875.5	3838.3	3919.2
5°	5271.9	5065.2	4630.0	4156.5	3711.4	3218.3	2841.0	2542.5	2272.4	2180.5	2263.6
7.5°	5328.8	5021.5	4311.8	3532.1	2757.9	1988.0	1461.0	1114.3	893.4	827.8	862.8
10°	5385.6	4958.1	3943.3	2792.9	1734.3	967.8	629.9	503.0	456.0	446.2	451.6
12.5°	5432.6	4872.8	3493.8	1985.8	927.3	518.3	412.3	391.5	384.9	384.9	387.1
15°	5461.1	4743.7	2961.3	1263.0	533.6	391.5	359.8	353.2	353.2	354.3	356.5
17.5°	5457.8	4579.7	2378.4	764.4	399.1	346.6	328.1	322.6	321.5	323.7	324.8
20°	5417.3	4365.4	1793.4	504.1	347.7	316.0	297.4	287.6	286.5	288.7	290.9
22.5°	5340.8	4100.7	1282.7	388.2	313.8	286.5	263.5	254.8	254.8	257.0	259.2
25°	5247.8	3777.0	877.0	329.2	283.2	254.8	232.9	225.3	227.5	232.9	234.0
27.5°	5131.9	3412.9	596.0	282.1	246.0	223.1	206.7	201.2	206.7	214.3	216.5
30°	5032.4	3033.4	425.4	243.9	208.9	192.5	182.6	182.6	190.3	204.5	207.8
32.5°	4955.9	2666.0	328.1	215.4	181.5	167.3	161.8	167.3	179.3	193.6	196.8
35°	4946.0	2363.1	277.8	192.5	161.8	147.6	145.4	155.3	167.3	178.2	180.4
37.5°	5021.5	2083.2	250.4	173.9	144.3	131.2	129.0	141.1	153.1	166.2	169.5
40°	5164.7	1863.4	230.7	156.4	130.1	115.9	111.5	120.3	136.7	154.2	158.6
42.5°	5350.6	1681.8	208.9	138.9	115.9	96.2	90.8	100.6	118.1	136.7	142.2
45°	5527.8	1525.5	184.8	119.2	97.3	74.4	72.2	85.3	94.0	112.6	117.0
47.5°	5625.1	1387.7	164.0	97.3	75.5	60.1	60.1	63.4	72.2	94.0	98.4
50°	5592.3	1277.2	142.2	72.2	52.5	45.9	45.9	44.8	58.0	75.5	78.7
52.5°	5526.7	1213.8	122.5	55.8	36.1	32.8	29.5	32.8	40.5	48.1	49.2
55°	5516.8	1202.9	102.8	44.8	25.2	21.9	16.4	16.4	16.4	15.3	13.1
57.5°	5593.4	1220.4	86.4	36.1	18.6	14.2	8.7	0.0	0.0	0.0	0.0
60°	5672.1	1239.0	74.4	25.2	13.1	7.7	1.1	0.0	0.0	0.0	0.0
62.5°	5540.9	1197.4	62.3	15.3	9.8	3.3	0.0	0.0	0.0	0.0	0.0
65°	4867.3	1019.2	49.2	10.9	6.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3462.1	682.4	32.8	6.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	1580.1	285.4	20.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	337.9	88.6	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	68.9	64.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	21.9	101.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.1	73.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.2	10.9	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)