

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: P269700

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269700
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-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 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: 41902.4 lumens
Efficiency: N/A
Efficacy: 75.1 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

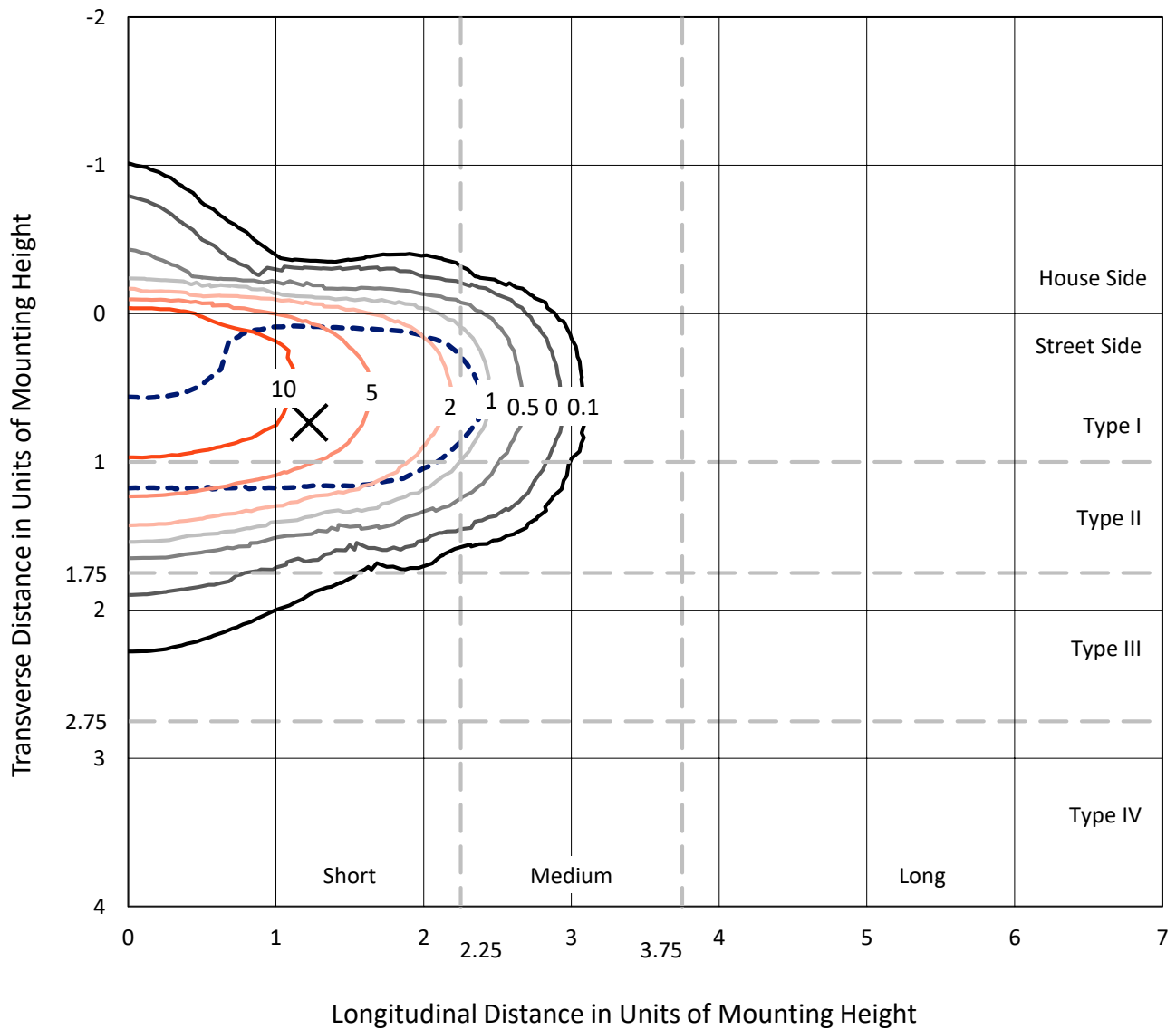


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

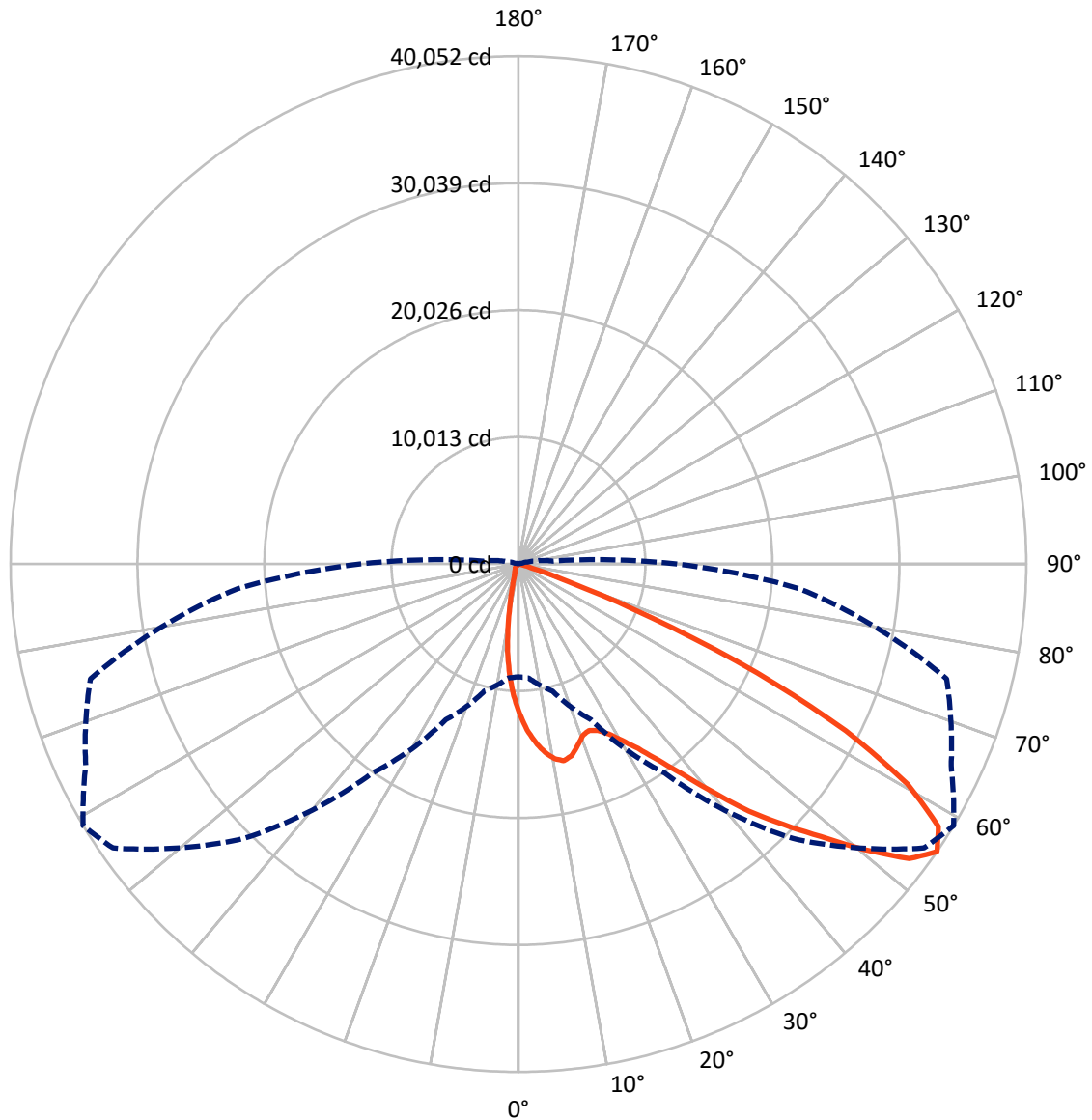


Based on 30 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Short - Full Cutoff

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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	2340.5	0.0	2340.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	39561.9	0.0	39561.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	41902.4	0.0	41902.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	988.0	2.4
10°-20°	2365.5	5.6
20°-30°	4025.2	9.6
30°-40°	6922.5	16.5
40°-50°	10687.5	25.5
50°-60°	10744.4	25.6
60°-70°	5509.8	13.1
70°-80°	597.1	1.4
80°-90°	62.4	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°	41902.4	100.0
0°-180°	41902.4	100.0



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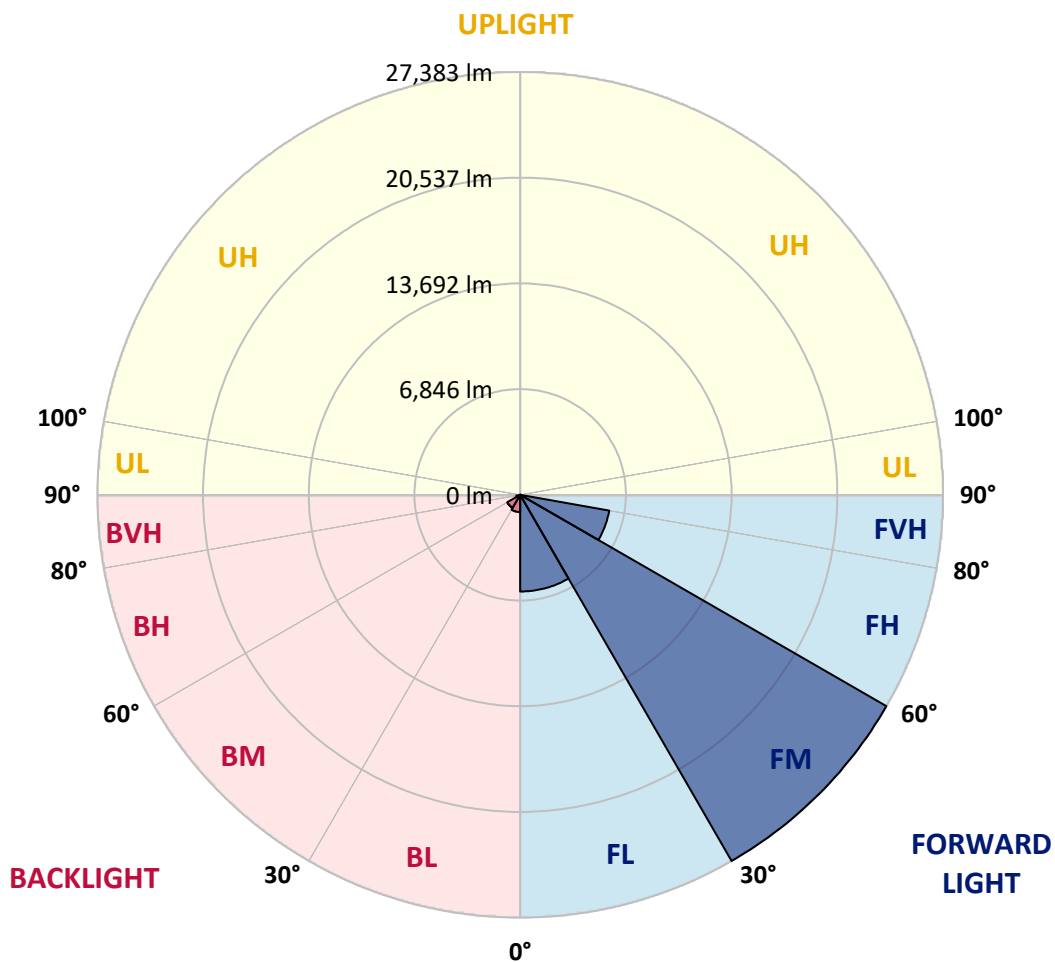
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6261.6	14.9			
FM (30°-60°)	27383.0	65.3			
FH (60°-80°)	5856.1	14.0			G3/7500
FVH (80°-90°)	61.1	0.1			G1/100
BL (0°-30°)	1117.1	2.7	B3/2500		
BM (30°-60°)	971.3	2.3	B1/1000		
BH (60°-80°)	250.7	0.6	B1/500		G1/500
BVH (80°-90°)	1.3	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°	11795.4	11795.4	11795.4	11795.4	11795.4	11795.4	11795.4	11795.4	11795.4	11795.4	11795.4
2.5°	13956.6	13808.2	13763.7	13734.0	13598.1	13427.4	13195.1	13086.1	12863.5	12505.0	12064.9
5°	15235.1	15207.9	15109.0	15054.5	14908.7	14666.3	14295.4	14117.4	13763.7	13160.3	12371.5
7.5°	14676.1	14846.8	14982.8	15210.3	15497.2	15487.3	15175.7	14990.2	14594.7	13798.3	12712.9
10°	12517.4	12656.0	12878.6	13395.3	14448.7	15378.5	15744.5	15610.9	15294.5	14384.4	13041.7
12.5°	12094.6	12079.8	12119.4	12270.2	12821.6	14147.0	15648.0	15917.5	15853.3	14920.9	13353.2
15°	12319.6	12302.3	12297.3	12349.3	12482.8	13041.7	14923.5	15697.5	16194.6	15418.1	13617.9
17.5°	12950.1	12875.9	12836.4	12794.4	12754.9	12893.4	14053.1	15081.7	16246.4	15853.3	13837.9
20°	14030.7	13907.2	13761.2	13523.9	13301.4	13232.0	13687.0	14448.7	16060.9	16184.7	13981.3
22.5°	15388.3	15230.1	14977.9	14545.1	14092.6	13830.6	13867.7	14248.5	15783.9	16545.6	14048.1
25°	16914.1	16711.3	16375.1	15774.1	15109.0	14644.1	14401.7	14535.2	15657.9	16968.5	14124.8
27.5°	18548.7	18323.6	17883.5	17064.9	16310.7	15682.6	15188.2	15170.8	15873.1	17522.3	14248.5
30°	20168.3	20133.7	19560.1	18694.5	17695.5	16931.4	16219.3	16127.8	16473.9	18289.0	14493.3
32.5°	22329.6	22070.0	21367.7	20477.5	19325.1	18407.7	17564.5	17351.8	17396.3	19181.7	14871.6
35°	25054.6	24770.3	23781.2	22552.2	21263.8	20180.8	19248.4	18959.2	18850.4	20643.1	15509.5
37.5°	26815.3	26810.4	26189.6	24938.4	23556.2	22361.8	21348.0	21009.1	20789.0	22408.7	16498.7
40°	26862.2	26978.4	27060.2	27047.7	26063.6	24963.2	24063.1	23645.1	23133.2	24767.8	17777.2
42.5°	25420.6	25719.8	26439.5	27661.0	28244.6	27806.9	27047.7	26637.4	25875.7	27292.6	19334.9
45°	23472.1	23679.9	24938.4	27188.7	29426.6	30625.9	30047.2	29312.9	28308.8	29926.1	20732.2
47.5°	22599.1	22636.2	23449.7	25920.1	29515.6	32935.5	33286.7	32092.3	30519.6	32047.8	21825.1
50°	19990.3	20057.0	21179.8	23721.8	28472.0	34026.1	36541.0	35408.4	32930.5	33682.4	22223.3
52.5°	15066.9	15160.9	16585.2	20109.0	25603.6	33561.1	38870.3	38595.9	35571.5	34481.0	22245.5
55°	8889.7	9013.5	10373.4	13536.2	20138.7	30603.6	39043.5	40052.3	37656.2	34953.4	22211.0
57.5°	4151.8	4238.5	5017.4	6973.4	12524.9	24186.7	36437.1	39053.4	38806.1	35203.0	22455.7
60°	2205.8	2230.5	2418.4	3019.4	5660.3	15336.5	31350.5	35264.9	37757.6	35549.3	22755.0
62.5°	1686.5	1693.8	1684.1	1755.6	2378.8	6807.6	23697.1	28991.4	33536.5	35289.6	22423.6
65°	1461.5	1473.8	1404.6	1387.3	1525.7	2428.3	14077.8	20665.4	26352.9	31785.6	20166.0
67.5°	1310.5	1315.6	1231.4	1159.7	1184.4	1313.1	5554.0	11313.2	17443.3	23299.0	14617.0
70°	1206.8	1201.8	1110.2	996.6	964.4	897.6	1765.6	4146.9	8335.9	11815.1	6797.8
72.5°	1068.3	1070.7	1026.3	877.9	801.2	628.0	818.4	1209.2	2487.6	3219.6	1592.4
75°	947.2	934.7	880.2	786.3	660.3	413.0	405.6	539.1	766.6	761.7	343.7
77.5°	685.0	672.7	689.9	645.4	507.0	267.1	202.7	259.6	311.6	301.7	96.5
80°	502.1	494.5	445.1	536.6	447.5	183.0	126.1	138.5	160.7	136.1	29.6
82.5°	343.7	341.3	314.0	296.7	254.7	111.3	79.1	86.5	103.8	76.6	14.8
85°	54.3	61.9	227.5	180.5	150.8	49.4	54.3	59.4	69.2	42.0	4.9
87.5°	0.0	0.0	106.3	94.0	29.6	19.9	32.2	34.7	34.7	22.3	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°	11795.4	11795.4	11795.4	11795.4	11795.4	11795.4	11795.4	11795.4	11795.4	11795.4	11795.4
2.5°	11839.9	11592.5	11135.1	10662.8	10225.1	9703.3	9344.8	9075.2	8763.7	8679.7	8862.6
5°	11921.4	11454.1	10469.9	9399.1	8392.8	7277.4	6424.4	5749.3	5138.6	4930.7	5118.7
7.5°	12050.0	11355.2	9750.4	7987.2	6236.5	4495.6	3303.6	2519.8	2020.3	1871.9	1951.1
10°	12178.6	11211.7	8916.9	6315.7	3921.9	2188.5	1424.4	1137.6	1031.2	1008.8	1021.3
12.5°	12285.0	11018.9	7900.7	4490.6	2097.0	1172.1	932.3	885.3	870.5	870.5	875.4
15°	12349.3	10727.1	6696.4	2856.2	1206.8	885.3	813.5	798.8	798.8	801.2	806.1
17.5°	12341.9	10356.2	5378.4	1728.5	902.5	784.0	741.8	729.5	727.0	731.9	734.5
20°	12250.4	9871.6	4055.4	1139.9	786.3	714.6	672.7	650.4	647.9	652.8	657.7
22.5°	12077.3	9273.2	2900.6	877.9	709.8	647.9	595.9	576.2	576.2	581.2	586.1
25°	11867.1	8541.2	1983.2	744.3	640.4	576.2	526.6	509.3	514.4	526.6	529.2
27.5°	11604.9	7717.7	1347.6	637.9	556.4	504.5	467.4	455.0	467.4	484.6	489.7
30°	11380.0	6859.5	961.9	551.4	472.2	435.1	413.0	413.0	430.3	462.4	469.9
32.5°	11206.9	6028.7	741.8	487.2	410.4	378.4	366.0	378.4	405.6	437.7	445.1
35°	11184.5	5343.7	628.0	435.1	366.0	333.8	328.9	351.1	378.4	403.1	408.0
37.5°	11355.2	4710.7	566.3	393.2	326.4	296.7	291.8	319.0	346.1	375.9	383.2
40°	11679.1	4213.7	521.7	353.7	294.3	262.1	252.2	271.9	309.0	348.6	358.6
42.5°	12099.5	3803.2	472.2	314.0	262.1	217.6	205.3	227.5	267.1	309.0	321.5
45°	12500.2	3449.6	417.9	269.5	220.1	168.2	163.2	192.9	212.7	254.7	264.6
47.5°	12720.2	3138.0	370.9	220.1	170.6	136.1	136.1	143.4	163.2	212.7	222.6
50°	12646.0	2888.3	321.5	163.2	118.7	103.8	103.8	101.4	131.1	170.6	178.0
52.5°	12497.7	2744.9	276.9	126.1	81.6	74.2	66.7	74.2	91.4	108.9	111.3
55°	12475.4	2720.1	232.4	101.4	56.9	49.4	37.1	37.1	37.1	34.7	29.6
57.5°	12648.5	2759.7	195.3	81.6	42.0	32.2	19.9	0.0	0.0	0.0	0.0
60°	12826.4	2801.8	168.2	56.9	29.6	17.2	2.4	0.0	0.0	0.0	0.0
62.5°	12529.7	2707.8	140.9	34.7	22.3	7.5	0.0	0.0	0.0	0.0	0.0
65°	11006.6	2304.7	111.3	24.8	14.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7829.0	1543.1	74.2	14.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	3573.3	645.4	47.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	764.1	200.3	32.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	155.8	145.9	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	49.4	230.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	29.6	165.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.9	24.8	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)