

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: P193488

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-8030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193488  
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-8030-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 1200mA 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: 43173 lumens  
Efficiency: N/A  
Efficacy: 67.5 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): 640  
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

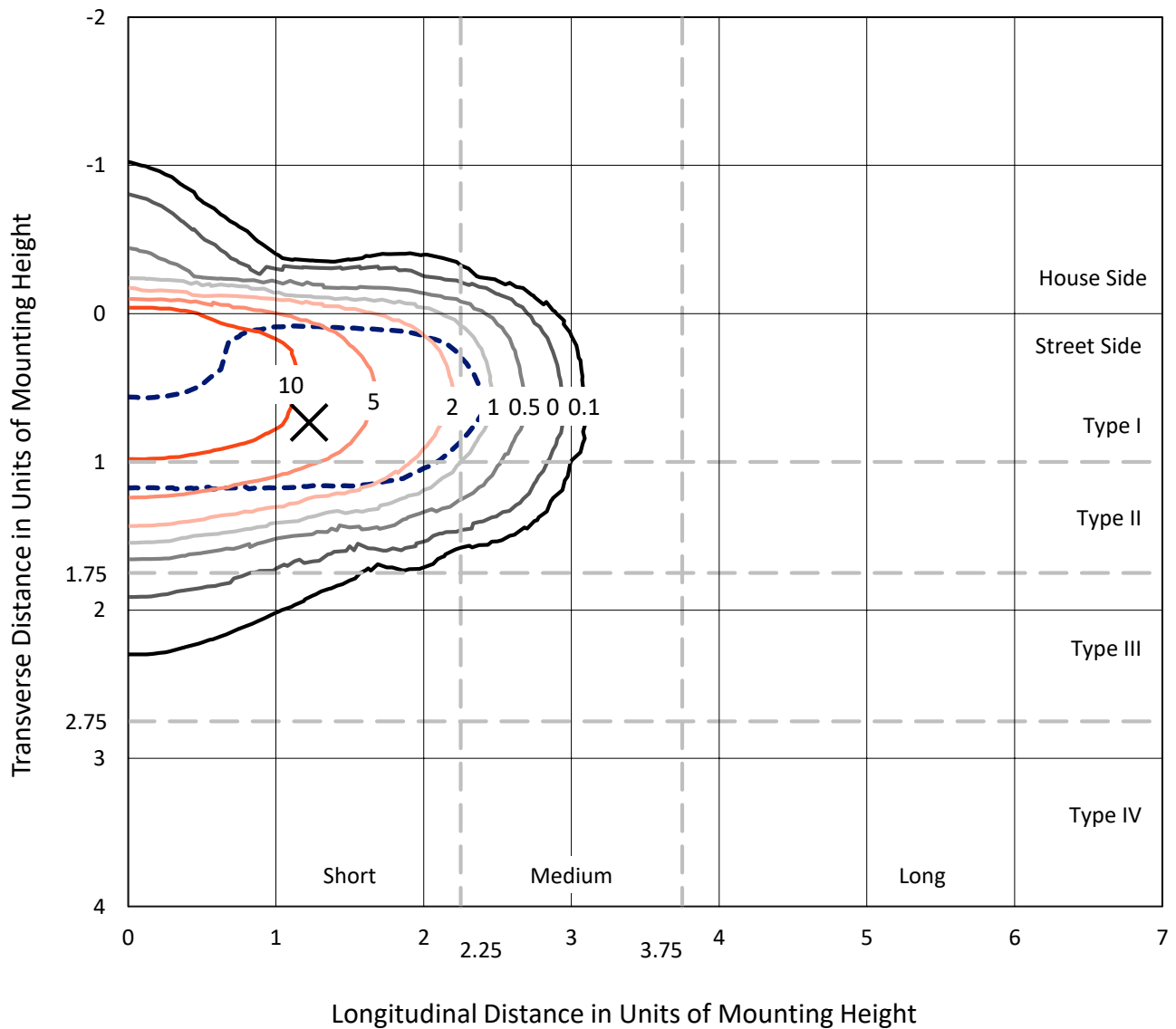


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

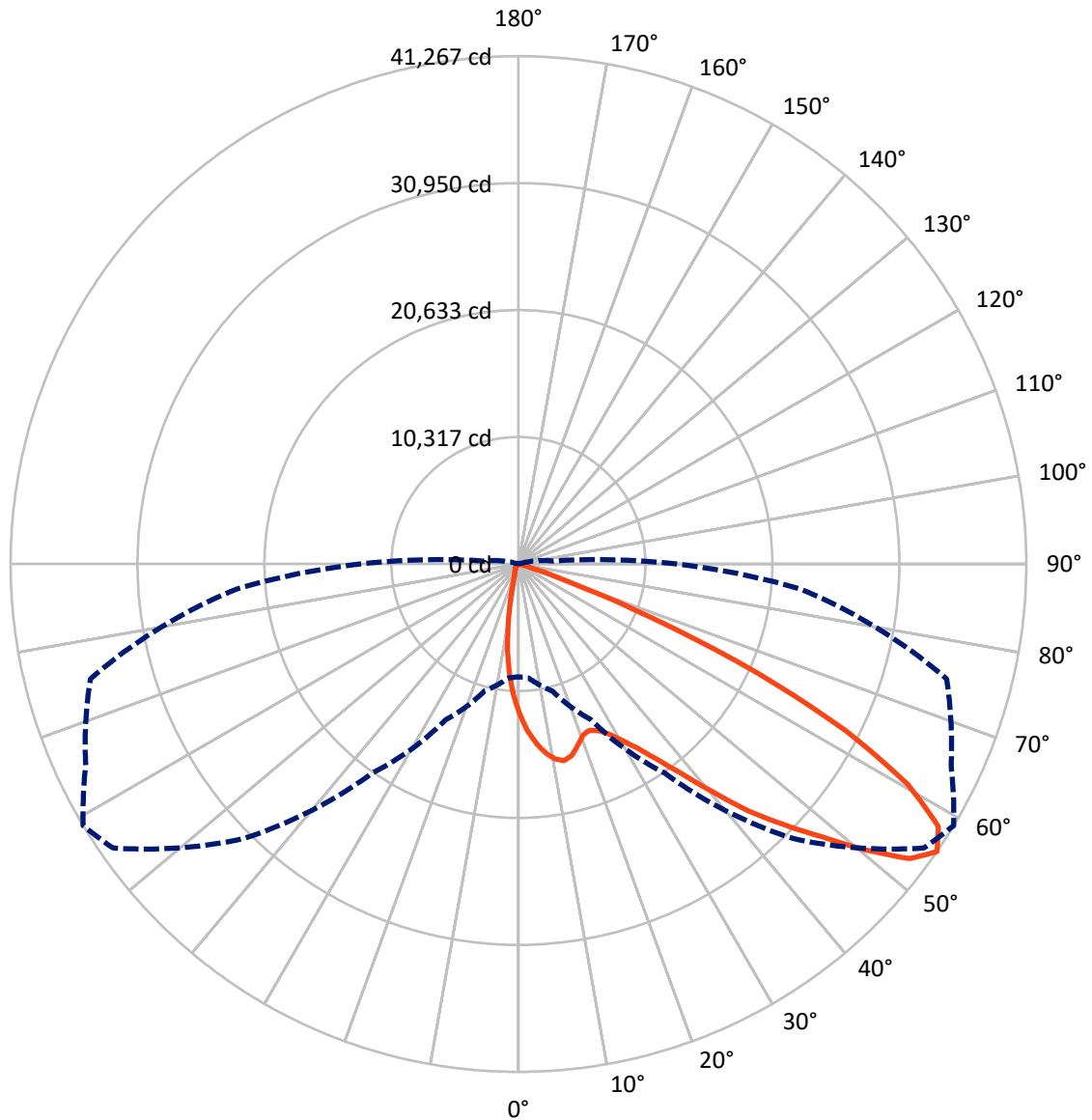


Based on 30 foot mounting height. Maximum calculated value = 16.8 fc  
 Type II - Short - Full Cutoff

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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
<b>House Side</b>	Lumens	2411.5	0.0	2411.5
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	40761.5	0.0	40761.5
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	43173.0	0.0	43173.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1017.9	2.4
10°-20°	2437.2	5.6
20°-30°	4147.3	9.6
30°-40°	7132.4	16.5
40°-50°	11011.6	25.5
50°-60°	11070.2	25.6
60°-70°	5676.9	13.1
70°-80°	615.2	1.4
80°-90°	64.3	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°	43173.0	100.0
0°-180°	43173.0	100.0



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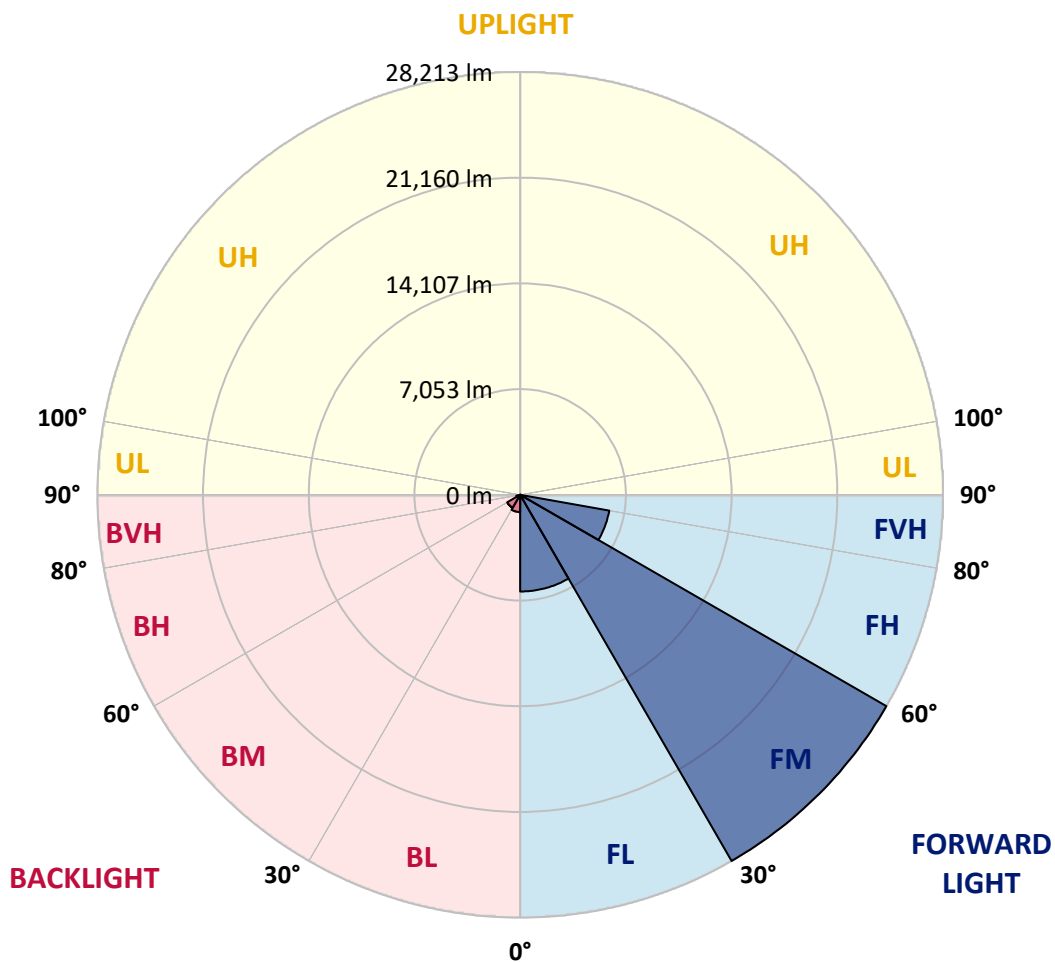
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6451.5	14.9			
FM	(30°-60°)	28213.4	65.3			
FH	(60°-80°)	6033.7	14.0			G3/7500
FVH	(80°-90°)	63.0	0.1			G1/100
BL	(0°-30°)	1151.0	2.7	B3/2500		
BM	(30°-60°)	1000.8	2.3	B2/2500		
BH	(60°-80°)	258.3	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°	12153.0	12153.0	12153.0	12153.0	12153.0	12153.0	12153.0	12153.0	12153.0	12153.0	12153.0
2.5°	14379.8	14227.0	14181.1	14150.5	14010.4	13834.6	13595.1	13483.0	13253.7	12884.3	12430.8
5°	15697.0	15669.0	15567.1	15511.1	15360.7	15111.0	14728.9	14545.4	14181.1	13559.4	12746.7
7.5°	15121.2	15297.0	15437.2	15671.6	15967.1	15956.9	15635.9	15444.8	15037.2	14216.8	13098.3
10°	12897.0	13039.7	13269.0	13801.5	14886.8	15844.8	16221.9	16084.3	15758.2	14820.6	13437.1
12.5°	12461.3	12446.0	12486.8	12642.2	13210.4	14576.0	16122.5	16400.2	16334.0	15373.5	13758.2
15°	12693.2	12675.3	12670.2	12723.8	12861.3	13437.1	15376.0	16173.5	16685.6	15885.6	14030.8
17.5°	13342.9	13266.4	13225.7	13182.4	13141.6	13284.3	14479.2	15539.1	16739.1	16334.0	14257.5
20°	14456.3	14328.9	14178.6	13934.0	13704.7	13633.3	14102.1	14886.8	16548.0	16675.4	14405.3
22.5°	15855.0	15691.9	15432.1	14986.2	14520.0	14249.9	14288.1	14680.5	16262.7	17047.4	14474.1
25°	17427.0	17218.1	16871.6	16252.5	15567.1	15088.1	14838.4	14976.0	16132.7	17483.1	14553.1
27.5°	19111.1	18879.3	18425.7	17582.4	16805.3	16158.2	15648.6	15630.8	16354.4	18053.8	14680.5
30°	20779.9	20744.3	20153.2	19261.4	18232.1	17444.8	16711.1	16616.8	16973.5	18843.6	14932.7
32.5°	23006.7	22739.2	22015.6	21098.4	19911.1	18965.9	18097.1	17878.0	17923.8	19763.3	15322.5
35°	25814.4	25521.4	24502.3	23236.0	21908.6	20792.7	19832.1	19534.0	19421.9	21269.1	15979.9
37.5°	27628.4	27623.3	26983.8	25694.6	24270.4	23039.8	21995.2	21646.2	21419.4	23088.2	16999.0
40°	27676.8	27796.6	27880.7	27867.9	26853.9	25720.1	24792.7	24362.1	23834.7	25518.8	18316.2
42.5°	26191.5	26499.7	27241.2	28499.8	29101.1	28650.1	27867.9	27445.0	26660.3	28120.2	19921.3
45°	24183.8	24397.8	25694.6	28013.1	30318.9	31554.6	30958.4	30201.7	29167.3	30833.6	21360.8
47.5°	23284.4	23322.6	24160.9	26706.1	30410.6	33934.3	34296.0	33065.5	31445.0	33019.6	22487.0
50°	20596.5	20665.3	21822.0	24441.1	29335.5	35057.8	37649.0	36482.1	33929.2	34703.7	22897.1
52.5°	15523.8	15620.6	17088.1	20718.8	26380.0	34578.8	40049.0	39766.2	36650.2	35526.6	22920.1
55°	9159.4	9286.8	10688.1	13946.7	20749.3	31531.7	40227.3	41266.8	38798.0	36013.3	22884.4
57.5°	4277.8	4366.9	5169.5	7184.8	12904.6	24920.1	37541.9	40237.5	39982.7	36270.6	23136.6
60°	2272.6	2298.1	2491.8	3110.9	5831.9	15801.5	32301.1	36334.3	38902.5	36627.3	23444.9
62.5°	1737.6	1745.2	1735.1	1808.9	2451.0	7014.1	24415.6	29870.5	34553.4	36359.8	23103.5
65°	1505.8	1518.5	1447.2	1429.3	1572.0	2501.9	14504.7	21292.0	27152.0	32749.5	20777.4
67.5°	1350.3	1355.4	1268.8	1194.9	1220.4	1352.9	5722.4	11656.2	17972.2	24005.4	15060.1
70°	1243.3	1238.2	1144.0	1026.8	993.6	924.9	1819.1	4272.7	8588.7	12173.4	7003.9
72.5°	1100.7	1103.2	1057.3	904.5	825.5	647.1	843.3	1245.9	2563.1	3317.2	1640.8
75°	975.8	963.1	907.0	810.2	680.3	425.5	417.8	555.4	789.8	784.7	354.1
77.5°	705.7	693.0	710.8	665.0	522.3	275.2	208.9	267.5	321.0	310.8	99.4
80°	517.2	509.6	458.6	552.9	461.2	188.5	129.9	142.7	165.6	140.1	30.6
82.5°	354.1	351.6	323.6	305.7	262.4	114.7	81.5	89.2	107.0	79.0	15.3
85°	56.1	63.7	234.4	186.0	155.4	51.0	56.1	61.1	71.3	43.3	5.1
87.5°	0.0	0.0	109.6	96.8	30.6	20.4	33.1	35.7	35.7	22.9	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°	12153.0	12153.0	12153.0	12153.0	12153.0	12153.0	12153.0	12153.0	12153.0	12153.0	12153.0
2.5°	12198.9	11944.1	11472.8	10986.1	10535.2	9997.6	9628.2	9350.5	9029.4	8942.8	9131.3
5°	12283.0	11801.4	10787.4	9684.2	8647.3	7498.2	6619.2	5923.7	5294.3	5080.3	5274.0
7.5°	12415.5	11699.5	10046.0	8229.4	6425.6	4631.9	3403.9	2596.2	2081.6	1928.7	2010.2
10°	12548.0	11551.8	9187.4	6507.1	4040.8	2254.8	1467.5	1172.0	1062.4	1039.5	1052.2
12.5°	12657.5	11353.0	8140.2	4626.8	2160.5	1207.7	960.5	912.1	896.8	896.8	901.9
15°	12723.8	11052.4	6899.5	2942.7	1243.3	912.1	838.2	822.9	822.9	825.5	830.6
17.5°	12716.1	10670.2	5541.5	1780.9	929.9	807.7	764.3	751.6	749.1	754.2	756.7
20°	12621.8	10170.8	4178.4	1174.5	810.2	736.3	693.0	670.1	667.5	672.6	677.7
22.5°	12443.5	9554.3	2988.6	904.5	731.2	667.5	614.0	593.6	593.6	598.7	603.8
25°	12226.9	8800.1	2043.3	766.9	659.9	593.6	542.7	524.8	529.9	542.7	545.2
27.5°	11956.9	7951.7	1388.6	657.3	573.3	519.8	481.5	468.8	481.5	499.4	504.5
30°	11725.0	7067.6	991.1	568.2	486.6	448.4	425.5	425.5	443.3	476.4	484.1
32.5°	11546.7	6211.6	764.3	501.9	422.9	389.8	377.1	389.8	417.8	451.0	458.6
35°	11523.7	5505.8	647.1	448.4	377.1	344.0	338.9	361.8	389.8	415.3	420.4
37.5°	11699.5	4853.6	583.4	405.1	336.3	305.7	300.6	328.7	356.7	387.3	394.9
40°	12033.3	4341.5	537.6	364.3	303.2	270.1	259.9	280.3	318.5	359.2	369.4
42.5°	12466.4	3918.5	486.6	323.6	270.1	224.2	211.5	234.4	275.2	318.5	331.2
45°	12879.2	3554.2	430.6	277.7	226.8	173.3	168.2	198.7	219.1	262.4	272.6
47.5°	13105.9	3233.2	382.2	226.8	175.8	140.1	140.1	147.8	168.2	219.1	229.3
50°	13029.5	2975.8	331.2	168.2	122.3	107.0	107.0	104.5	135.0	175.8	183.4
52.5°	12876.6	2828.1	285.4	129.9	84.1	76.4	68.8	76.4	94.3	112.1	114.7
55°	12853.7	2802.6	239.5	104.5	58.6	51.0	38.2	38.2	38.2	35.7	30.6
57.5°	13032.0	2843.4	201.3	84.1	43.3	33.1	20.4	0.0	0.0	0.0	0.0
60°	13215.5	2886.7	173.3	58.6	30.6	17.8	2.5	0.0	0.0	0.0	0.0
62.5°	12909.7	2789.8	145.2	35.7	22.9	7.6	0.0	0.0	0.0	0.0	0.0
65°	11340.3	2374.6	114.7	25.5	15.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8066.4	1589.8	76.4	15.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	3681.6	665.0	48.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	787.3	206.4	33.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	160.5	150.3	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	51.0	236.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	30.6	170.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.1	25.5	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)