

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: P191737

Luminaire Tested: **GLEON-AF-09-LED-E1-AFL-7050-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191737  
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-09-LED-E1-AFL-7050-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 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: 43563 lumens  
Efficiency: N/A  
Efficacy: 87.0 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): 501  
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

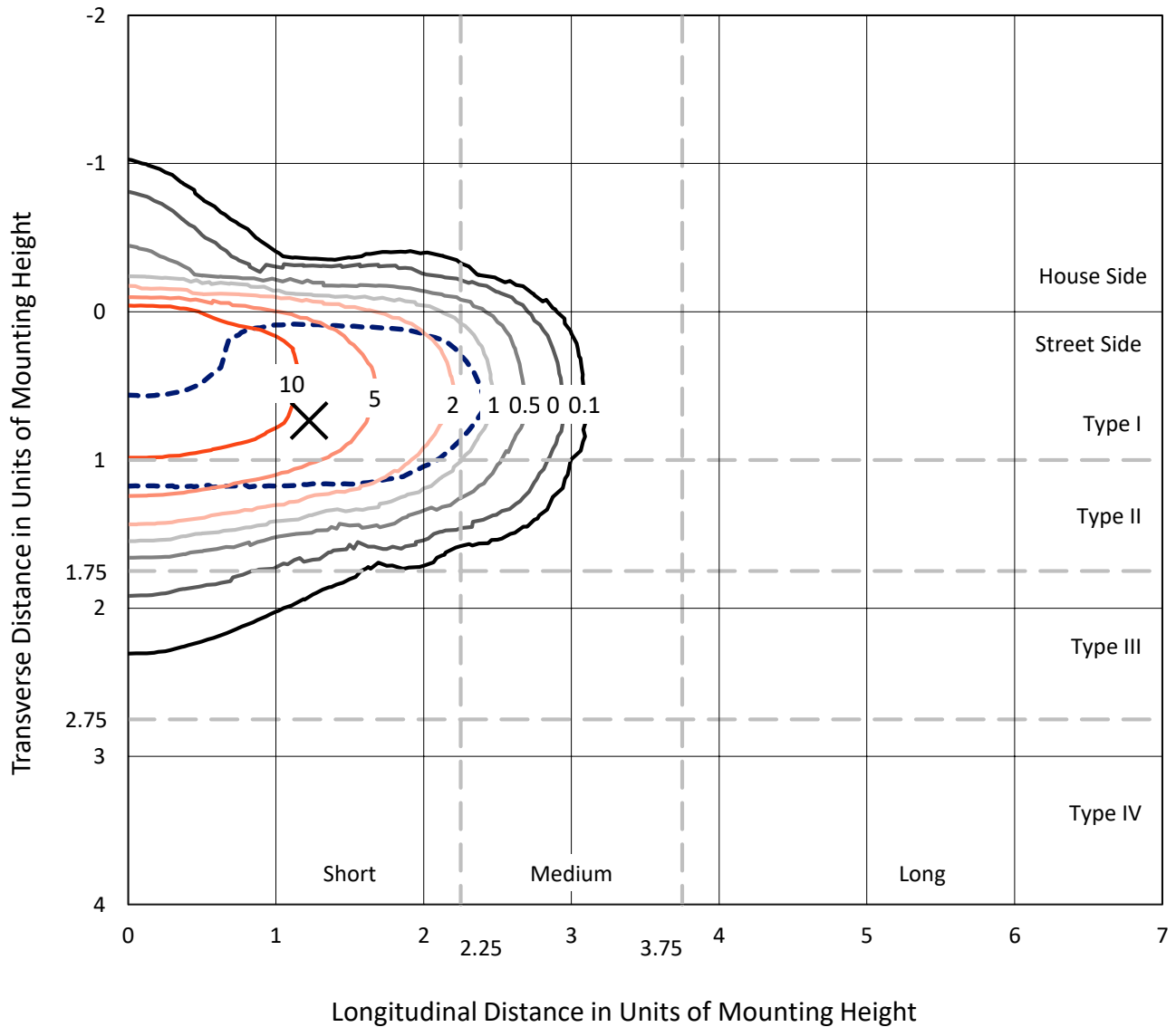


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

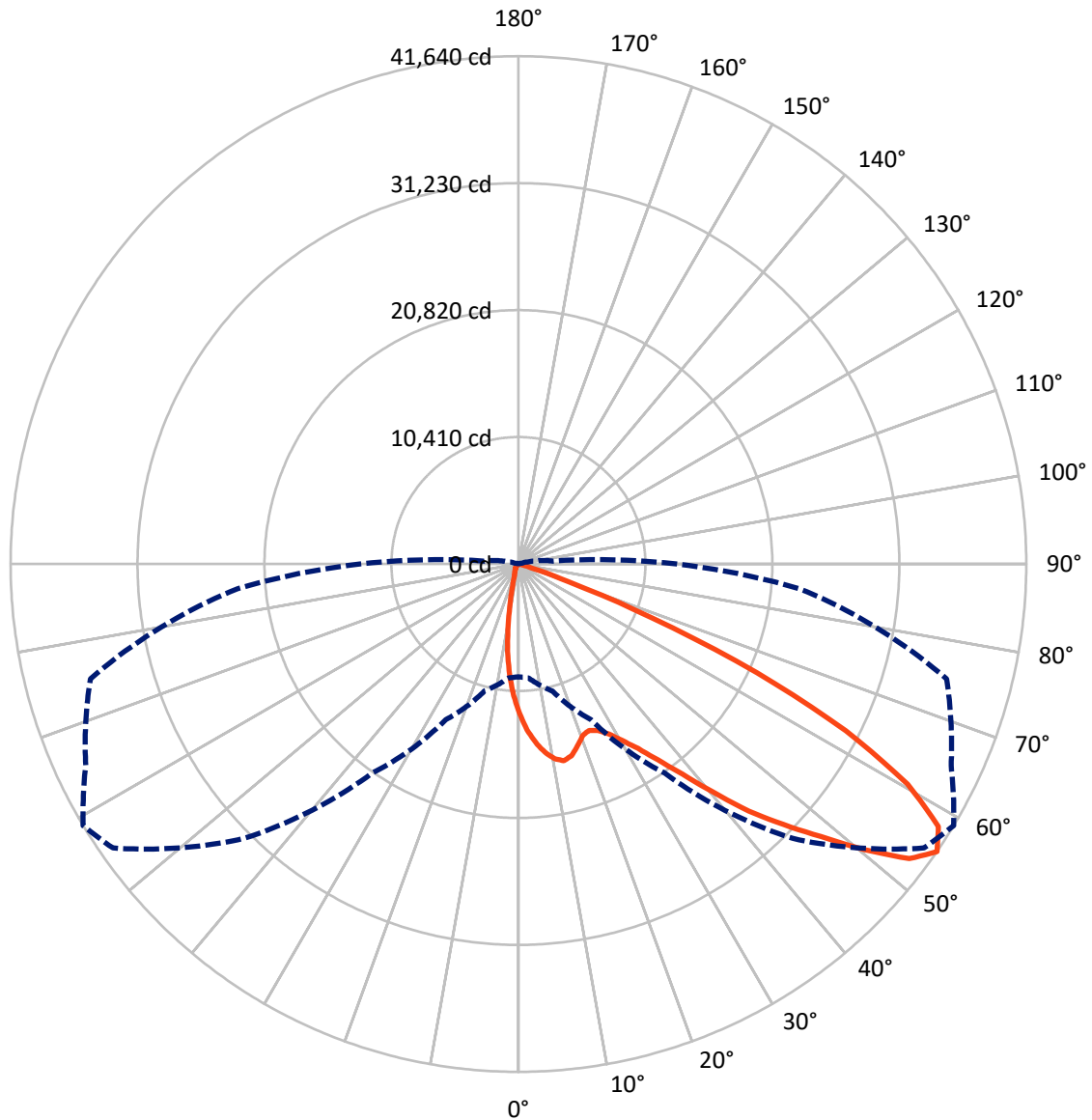


Based on 30 foot mounting height. Maximum calculated value = 16.9 fc  
 Type II - Short - Full Cutoff

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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	2433.2	0.0	2433.2
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	41129.8	0.0	41129.8
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	43563.0	0.0	43563.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1027.1	2.4
10°-20°	2459.3	5.6
20°-30°	4184.7	9.6
30°-40°	7196.8	16.5
40°-50°	11111.1	25.5
50°-60°	11170.2	25.6
60°-70°	5728.1	13.1
70°-80°	620.8	1.4
80°-90°	64.9	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°	43563.0	100.0
0°-180°	43563.0	100.0

**Coefficient of Utilization**



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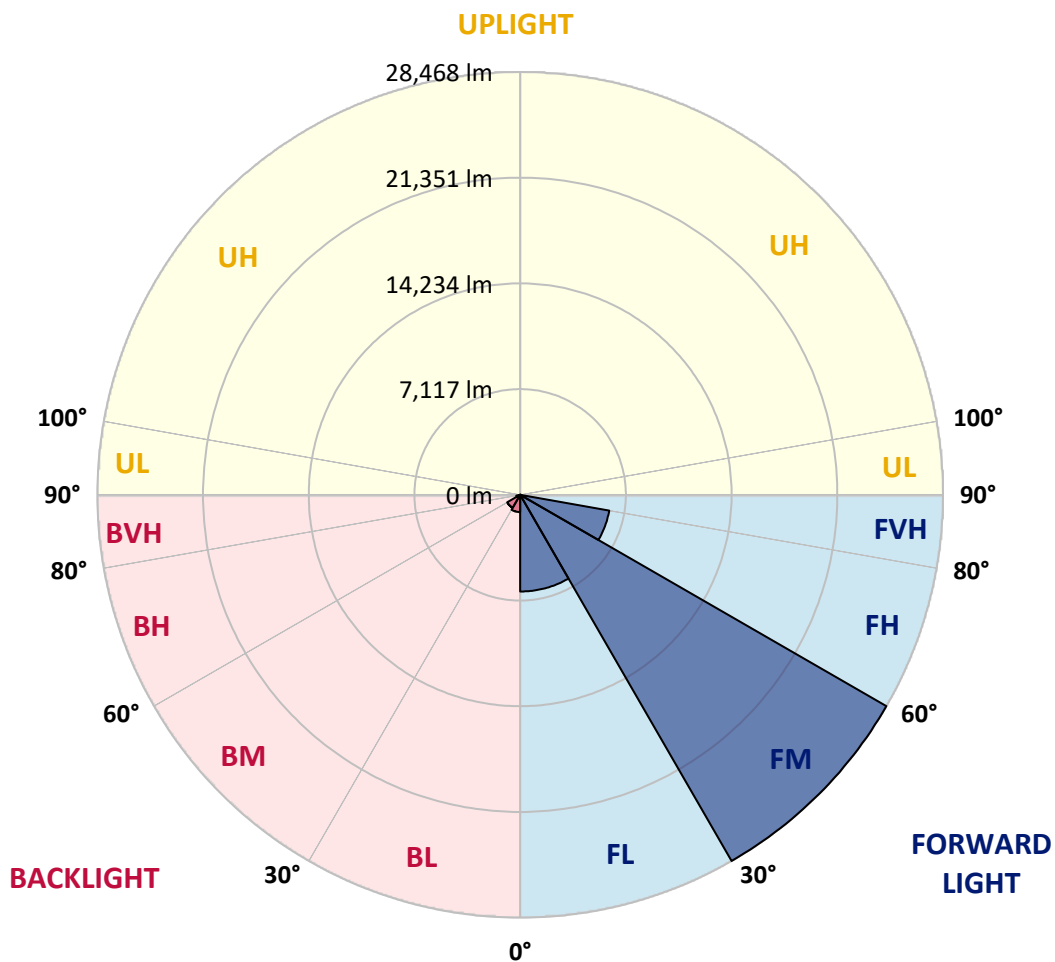
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6509.7	14.9			
FM	(30°-60°)	28468.2	65.3			
FH	(60°-80°)	6088.2	14.0			G3/7500
FVH	(80°-90°)	63.5	0.1			G1/100
BL	(0°-30°)	1161.4	2.7	B3/2500		
BM	(30°-60°)	1009.8	2.3	B2/2500		
BH	(60°-80°)	260.7	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°	12262.8	12262.8	12262.8	12262.8	12262.8	12262.8	12262.8	12262.8	12262.8	12262.8	12262.8
2.5°	14509.7	14355.5	14309.2	14278.4	14137.0	13959.6	13717.9	13604.8	13373.4	13000.7	12543.0
5°	15838.8	15810.6	15707.7	15651.2	15499.5	15247.6	14861.9	14676.8	14309.2	13681.9	12861.8
7.5°	15257.8	15435.2	15576.6	15813.1	16111.3	16101.1	15777.1	15584.3	15173.0	14345.2	13216.6
10°	13013.5	13157.5	13388.8	13926.1	15021.3	15988.0	16368.4	16229.6	15900.5	14954.5	13558.5
12.5°	12573.9	12558.5	12599.6	12756.4	13329.7	14707.7	16268.2	16548.4	16481.5	15512.3	13882.4
15°	12807.8	12789.8	12784.7	12838.7	12977.5	13558.5	15514.9	16319.6	16836.3	16029.1	14157.5
17.5°	13463.4	13386.3	13345.1	13301.4	13260.3	13404.3	14610.0	15679.5	16890.3	16481.5	14386.3
20°	14586.9	14458.3	14306.6	14059.8	13828.5	13756.5	14229.5	15021.3	16697.5	16826.0	14535.4
22.5°	15998.2	15833.7	15571.5	15121.6	14651.1	14378.6	14417.2	14813.1	16409.6	17201.4	14604.8
25°	17584.4	17373.6	17024.0	16399.3	15707.7	15224.4	14972.5	15111.3	16278.5	17641.0	14684.5
27.5°	19283.7	19049.8	18592.2	17741.3	16957.2	16304.2	15790.0	15772.0	16502.1	18216.9	14813.1
30°	20967.6	20931.6	20335.2	19435.4	18396.8	17602.4	16862.0	16766.9	17126.8	19013.8	15067.6
32.5°	23214.5	22944.6	22214.5	21289.0	20091.0	19137.2	18260.6	18039.5	18085.7	19941.9	15460.9
35°	26047.6	25751.9	24723.6	23445.9	22106.5	20980.5	20011.3	19710.5	19597.4	21461.2	16124.2
37.5°	27878.0	27872.9	27227.6	25926.8	24489.7	23248.0	22193.9	21841.7	21612.9	23296.8	17152.5
40°	27926.9	28047.7	28132.5	28119.7	27096.5	25952.5	25016.7	24582.2	24050.1	25749.4	18481.6
42.5°	26428.1	26739.1	27487.2	28757.2	29363.9	28908.9	28119.7	27692.9	26901.1	28374.2	20101.3
45°	24402.3	24618.2	25926.8	28266.2	30592.8	31839.6	31238.1	30474.5	29430.8	31112.1	21553.8
47.5°	23494.8	23533.3	24379.1	26947.4	30685.3	34240.8	34605.9	33364.1	31729.1	33317.9	22690.1
50°	20782.5	20851.9	22019.1	24661.9	29600.5	35374.5	37989.1	36811.6	34235.7	35017.2	23104.0
52.5°	15664.0	15761.7	17242.5	20905.9	26618.3	34891.2	40410.8	40125.4	36981.3	35847.6	23127.1
55°	9242.1	9370.7	10784.6	14072.7	20936.8	31816.5	40590.7	41639.6	39148.5	36338.6	23091.1
57.5°	4316.4	4406.4	5216.2	7249.7	13021.2	25145.2	37881.1	40601.0	40343.9	36598.2	23345.6
60°	2293.2	2318.9	2514.3	3139.0	5884.6	15944.2	32592.9	36662.5	39253.9	36958.2	23656.7
62.5°	1753.3	1761.0	1750.7	1825.3	2473.1	7077.5	24636.2	30140.3	34865.5	36688.2	23312.2
65°	1519.4	1532.2	1460.2	1442.2	1586.2	2524.5	14635.7	21484.4	27397.3	33045.4	20965.1
67.5°	1362.5	1367.7	1280.3	1205.7	1231.4	1365.1	5774.1	11761.5	18134.6	24222.3	15196.1
70°	1254.6	1249.4	1154.3	1036.0	1002.6	933.2	1835.6	4311.3	8666.2	12283.4	7067.2
72.5°	1110.6	1113.2	1066.9	912.6	832.9	653.0	850.9	1257.1	2586.2	3347.2	1655.6
75°	984.6	971.8	915.2	817.5	686.4	429.3	421.6	560.4	797.0	791.8	357.3
77.5°	712.1	699.3	717.3	671.0	527.0	277.6	210.8	269.9	323.9	313.6	100.3
80°	521.9	514.2	462.7	557.9	465.3	190.2	131.1	144.0	167.1	141.4	30.8
82.5°	357.3	354.8	326.5	308.5	264.8	115.7	82.3	90.0	108.0	79.7	15.4
85°	56.6	64.3	236.5	187.7	156.8	51.4	56.6	61.7	72.0	43.7	5.1
87.5°	0.0	0.0	110.5	97.7	30.8	20.6	33.4	36.0	36.0	23.1	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°	12262.8	12262.8	12262.8	12262.8	12262.8	12262.8	12262.8	12262.8	12262.8	12262.8	12262.8
2.5°	12309.1	12052.0	11576.4	11085.4	10630.4	10087.9	9715.1	9434.9	9111.0	9023.6	9213.8
5°	12393.9	11908.1	10884.9	9771.7	8725.4	7565.9	6679.0	5977.2	5342.2	5126.2	5321.6
7.5°	12527.6	11805.2	10136.8	8303.8	6483.6	4673.8	3434.6	2619.7	2100.4	1946.1	2028.4
10°	12661.3	11656.1	9270.4	6565.9	4077.3	2275.2	1480.8	1182.6	1072.0	1048.9	1061.8
12.5°	12771.9	11455.6	8213.8	4668.6	2180.1	1218.6	969.2	920.4	904.9	904.9	910.1
15°	12838.7	11152.2	6961.8	2969.3	1254.6	920.4	845.8	830.4	830.4	832.9	838.1
17.5°	12831.0	10766.6	5591.5	1797.0	938.4	815.0	771.2	758.4	755.8	761.0	763.5
20°	12735.9	10262.7	4216.2	1185.1	817.5	743.0	699.3	676.1	673.6	678.7	683.8
22.5°	12555.9	9640.6	3015.6	912.6	737.8	673.6	619.6	599.0	599.0	604.1	609.3
25°	12337.4	8879.6	2061.8	773.8	665.8	599.0	547.6	529.6	534.7	547.6	550.2
27.5°	12064.9	8023.5	1401.1	663.3	578.4	524.4	485.9	473.0	485.9	503.9	509.0
30°	11830.9	7131.5	1000.1	573.3	491.0	452.5	429.3	429.3	447.3	480.7	488.5
32.5°	11651.0	6267.7	771.2	506.5	426.8	393.3	380.5	393.3	421.6	455.0	462.7
35°	11627.8	5555.5	653.0	452.5	380.5	347.1	341.9	365.1	393.3	419.0	424.2
37.5°	11805.2	4897.4	588.7	408.8	339.3	308.5	303.4	331.6	359.9	390.8	398.5
40°	12142.0	4380.7	542.4	367.6	305.9	272.5	262.2	282.8	321.4	362.5	372.8
42.5°	12579.0	3953.9	491.0	326.5	272.5	226.2	213.4	236.5	277.6	321.4	334.2
45°	12995.5	3586.3	434.5	280.2	228.8	174.8	169.7	200.5	221.1	264.8	275.1
47.5°	13224.3	3262.4	385.6	228.8	177.4	141.4	141.4	149.1	169.7	221.1	231.4
50°	13147.2	3002.7	334.2	169.7	123.4	108.0	108.0	105.4	136.3	177.4	185.1
52.5°	12992.9	2853.6	287.9	131.1	84.8	77.1	69.4	77.1	95.1	113.1	115.7
55°	12969.8	2827.9	241.7	105.4	59.1	51.4	38.6	38.6	38.6	36.0	30.8
57.5°	13149.8	2869.0	203.1	84.8	43.7	33.4	20.6	0.0	0.0	0.0	0.0
60°	13334.9	2912.7	174.8	59.1	30.8	18.0	2.6	0.0	0.0	0.0	0.0
62.5°	13026.4	2815.1	146.5	36.0	23.1	7.7	0.0	0.0	0.0	0.0	0.0
65°	11442.7	2396.0	115.7	25.7	15.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8139.2	1604.2	77.1	15.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	3714.8	671.0	48.8	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	794.4	208.2	33.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	162.0	151.7	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	51.4	239.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	30.8	172.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.1	25.7	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)