

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: P191745

Luminaire Tested: **GLEON-AF-07-LED-E1-AFL-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191745
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-7050-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 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: 37809 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 448
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

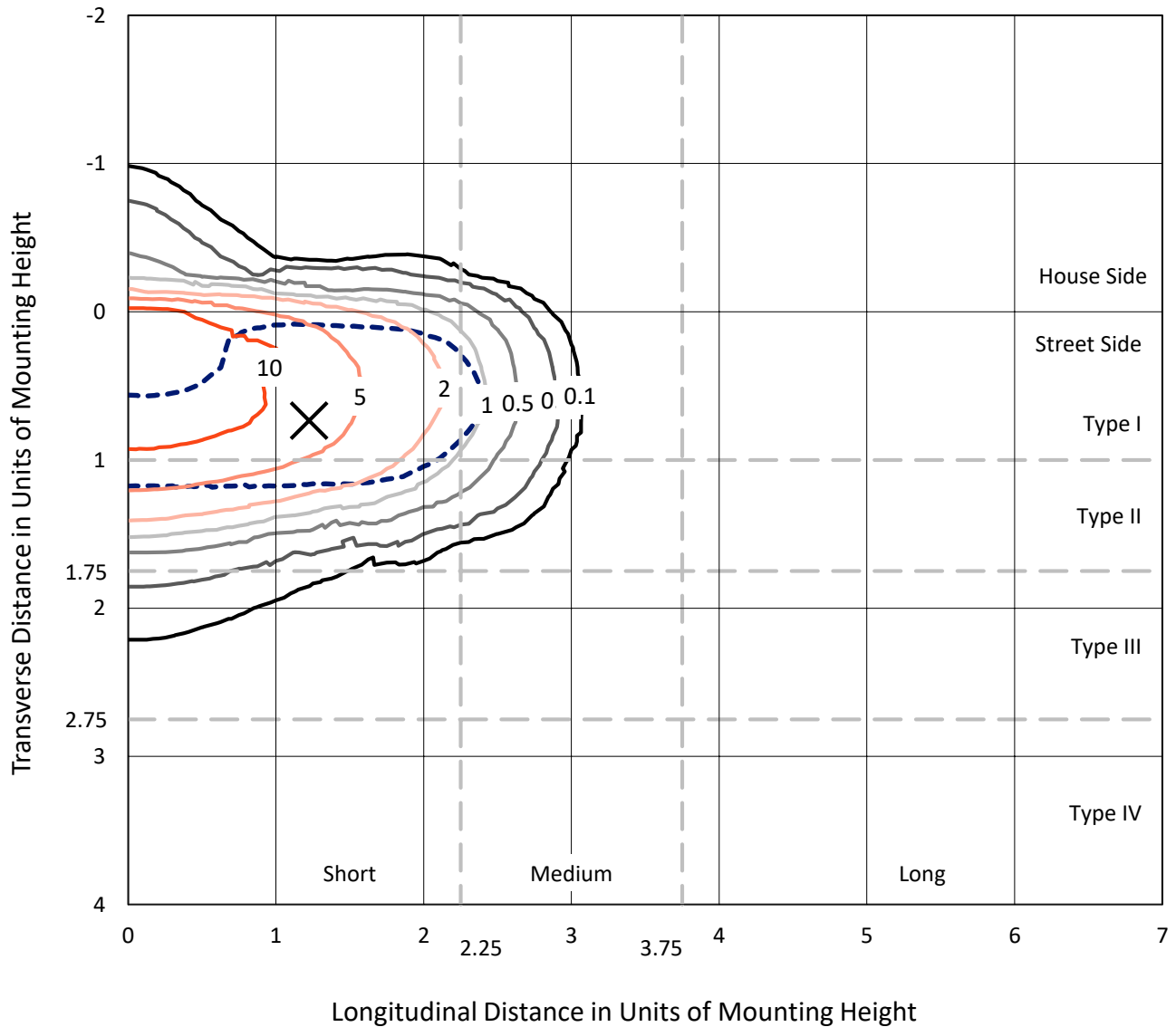


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

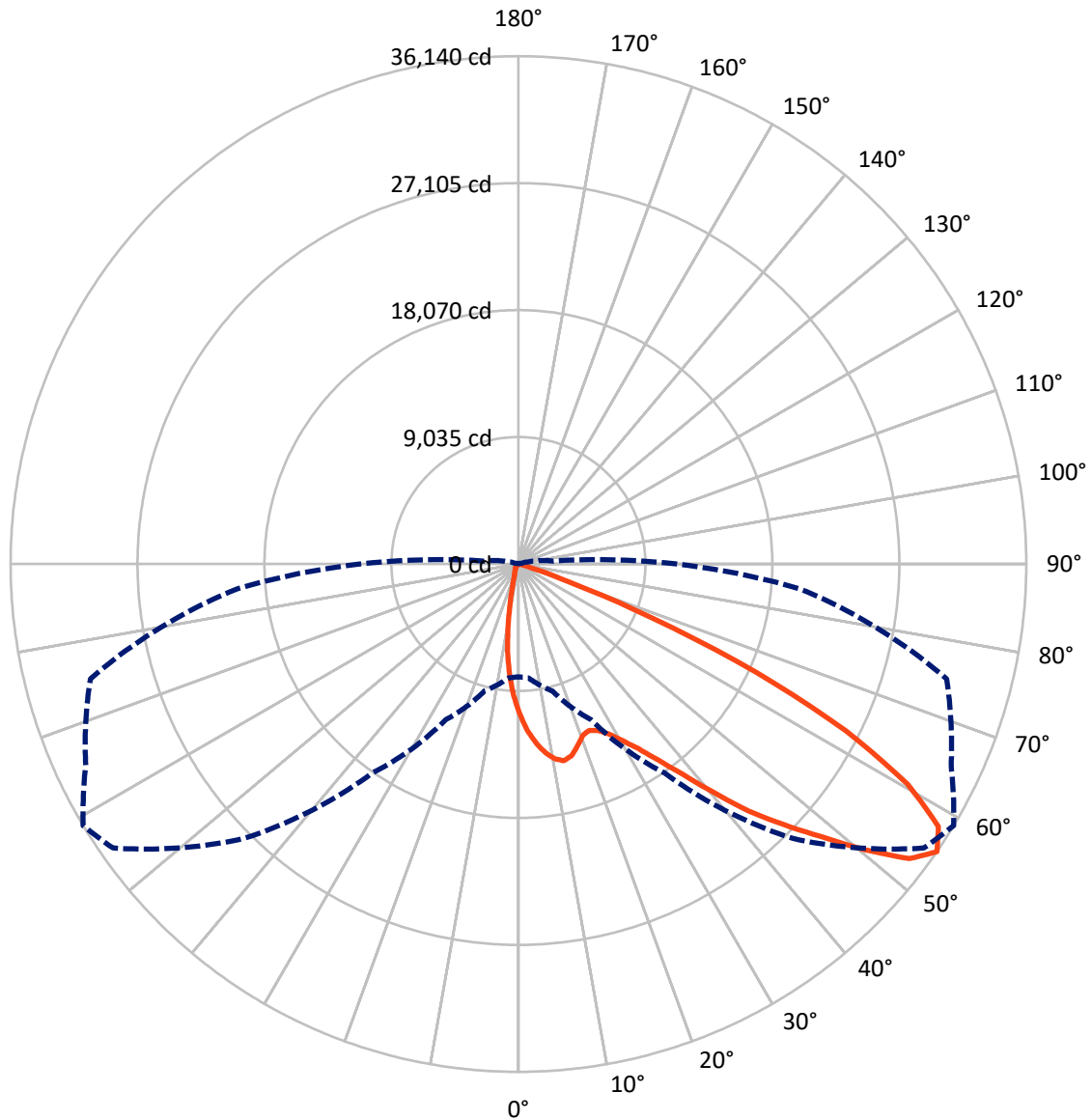


Based on 30 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Short - Full Cutoff

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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	2111.8	0.0	2111.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	35697.2	0.0	35697.2
	% Fixture	94.4	0.0	94.4
Total	Lumens	37809.0	0.0	37809.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	891.5	2.4
10°-20°	2134.4	5.6
20°-30°	3632.0	9.6
30°-40°	6246.2	16.5
40°-50°	9643.5	25.5
50°-60°	9694.8	25.6
60°-70°	4971.5	13.1
70°-80°	538.8	1.4
80°-90°	56.3	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°	37809.0	100.0
0°-180°	37809.0	100.0

Coefficient of Utilization



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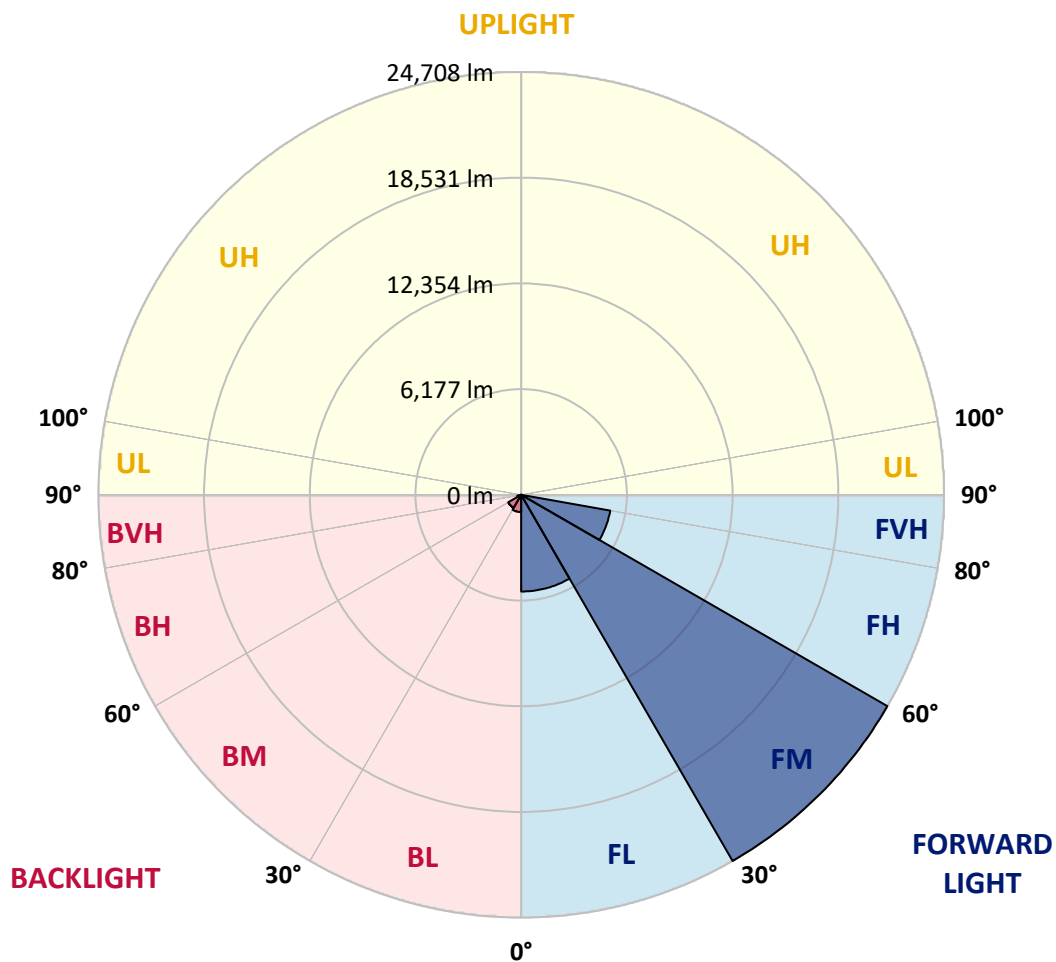
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5649.9	14.9			
FM (30°-60°)	24708.0	65.3			
FH (60°-80°)	5284.1	14.0			G3/7500
FVH (80°-90°)	55.2	0.1			G1/100
BL (0°-30°)	1008.0	2.7	B3/2500		
BM (30°-60°)	876.5	2.3	B1/1000		
BH (60°-80°)	226.2	0.6	B1/500		G1/500
BVH (80°-90°)	1.2	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°	10643.1	10643.1	10643.1	10643.1	10643.1	10643.1	10643.1	10643.1	10643.1	10643.1	10643.1
2.5°	12593.2	12459.3	12419.2	12392.4	12269.7	12115.7	11906.0	11807.8	11607.0	11283.5	10886.3
5°	13746.8	13722.2	13633.0	13583.9	13452.2	13233.6	12898.9	12738.2	12419.2	11874.8	11163.0
7.5°	13242.5	13396.5	13519.2	13724.5	13983.3	13974.4	13693.2	13525.9	13168.9	12450.4	11470.9
10°	11294.6	11419.6	11620.4	12086.7	13037.2	13876.2	14206.4	14085.9	13800.3	12979.2	11767.7
12.5°	10913.1	10899.7	10935.4	11071.5	11569.1	12765.0	14119.4	14362.6	14304.6	13463.4	12048.8
15°	11116.1	11100.5	11096.0	11142.9	11263.4	11767.7	13465.6	14164.0	14612.5	13911.9	12287.5
17.5°	11685.1	11618.2	11582.5	11544.5	11508.8	11633.8	12680.2	13608.4	14659.4	14304.6	12486.1
20°	12660.2	12548.6	12416.9	12202.7	12001.9	11939.5	12350.0	13037.2	14492.0	14603.6	12615.5
22.5°	13885.1	13742.3	13514.7	13124.3	12715.9	12479.4	12512.9	12856.5	14242.1	14929.3	12675.8
25°	15261.8	15078.8	14775.4	14233.2	13633.0	13213.5	12994.8	13115.3	14128.3	15310.9	12744.9
27.5°	16736.7	16533.6	16136.5	15397.9	14717.4	14150.6	13704.4	13688.8	14322.4	15810.7	12856.5
30°	18198.1	18166.9	17649.2	16868.3	15966.9	15277.4	14634.8	14552.3	14864.6	16502.4	13077.4
32.5°	20148.3	19914.0	19280.3	18477.0	17437.3	16609.5	15848.6	15656.7	15696.9	17307.9	13418.8
35°	22607.1	22350.5	21458.0	20349.1	19186.6	18209.3	17368.1	17107.0	17008.9	18626.5	13994.4
37.5°	24195.8	24191.3	23631.2	22502.2	21255.0	20177.3	19262.4	18956.8	18758.2	20219.7	14886.9
40°	24238.1	24343.0	24416.6	24405.5	23517.5	22524.5	21712.4	21335.3	20873.4	22348.3	16040.5
42.5°	22937.3	23207.3	23856.6	24958.8	25485.4	25090.5	24405.5	24035.1	23347.9	24626.4	17446.2
45°	21179.1	21366.5	22502.2	24532.7	26552.0	27634.1	27112.0	26449.3	25543.4	27002.7	18706.9
47.5°	20391.5	20424.9	21159.0	23388.0	26632.3	29718.1	30035.0	28957.3	27538.2	28917.1	19693.1
50°	18037.5	18097.7	19110.7	21404.5	25690.7	30702.1	32971.3	31949.4	29713.7	30392.0	20052.3
52.5°	13595.1	13679.8	14965.0	18144.6	23102.4	30282.6	35073.1	34825.5	32096.6	31112.7	20072.4
55°	8021.4	8132.9	9360.1	12213.9	18171.4	27614.0	35229.3	36139.7	33977.6	31538.8	20041.2
57.5°	3746.3	3824.4	4527.2	6292.1	11301.3	21823.9	32877.6	35238.2	35015.1	31764.2	20262.0
60°	1990.3	2012.6	2182.2	2724.4	5107.3	13838.3	28287.9	31820.0	34069.1	32076.6	20532.0
62.5°	1521.7	1528.4	1519.5	1584.2	2146.5	6142.7	21382.1	26159.3	30260.3	31842.3	20233.0
65°	1318.7	1329.8	1267.4	1251.7	1376.7	2191.1	12702.5	18646.6	23778.5	28680.6	18195.9
67.5°	1182.6	1187.0	1111.2	1046.5	1068.8	1184.8	5011.4	10208.0	15739.3	21022.9	13189.0
70°	1088.9	1084.4	1001.8	899.2	870.2	809.9	1593.1	3741.8	7521.6	10660.9	6133.7
72.5°	963.9	966.1	926.0	792.1	722.9	566.7	738.5	1091.1	2244.6	2905.1	1436.9
75°	854.6	843.4	794.3	709.5	595.7	372.6	365.9	486.4	691.7	687.2	310.1
77.5°	618.1	606.9	622.5	582.4	457.4	241.0	183.0	234.3	281.1	272.2	87.0
80°	452.9	446.3	401.6	484.2	403.9	165.1	113.8	125.0	145.0	122.7	26.8
82.5°	310.1	307.9	283.4	267.8	229.8	100.4	71.4	78.1	93.7	69.2	13.4
85°	49.1	55.8	205.3	162.9	136.1	44.6	49.1	53.6	62.5	37.9	4.5
87.5°	0.0	0.0	95.9	84.8	26.8	17.9	29.0	31.2	31.2	20.1	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°	10643.1	10643.1	10643.1	10643.1	10643.1	10643.1	10643.1	10643.1	10643.1	10643.1	10643.1
2.5°	10683.3	10460.1	10047.4	9621.2	9226.2	8755.5	8431.9	8188.7	7907.6	7831.7	7996.8
5°	10756.9	10335.2	9447.1	8481.0	7572.9	6566.6	5796.8	5187.7	4636.6	4449.1	4618.7
7.5°	10872.9	10245.9	8797.8	7207.0	5627.2	4056.4	2981.0	2273.7	1822.9	1689.1	1760.5
10°	10988.9	10116.5	8045.9	5698.6	3538.8	1974.7	1285.2	1026.4	930.4	910.4	921.5
12.5°	11084.9	9942.5	7128.9	4052.0	1892.1	1057.6	841.2	798.8	785.4	785.4	789.9
15°	11142.9	9679.2	6042.2	2577.1	1088.9	798.8	734.1	720.7	720.7	722.9	727.4
17.5°	11136.2	9344.5	4853.0	1559.6	814.4	707.3	669.4	658.2	656.0	660.5	662.7
20°	11053.6	8907.2	3659.3	1028.6	709.5	644.8	606.9	586.8	584.6	589.1	593.5
22.5°	10897.5	8367.2	2617.3	792.1	640.4	584.6	537.7	519.9	519.9	524.3	528.8
25°	10707.8	7706.8	1789.5	671.6	577.9	519.9	475.3	459.6	464.1	475.3	477.5
27.5°	10471.3	6963.8	1216.0	575.7	502.0	455.2	421.7	410.6	421.7	437.3	441.8
30°	10268.2	6189.5	868.0	497.6	426.2	392.7	372.6	372.6	388.2	417.2	423.9
32.5°	10112.1	5439.8	669.4	439.6	370.4	341.4	330.2	341.4	365.9	394.9	401.6
35°	10092.0	4821.7	566.7	392.7	330.2	301.2	296.8	316.8	341.4	363.7	368.2
37.5°	10245.9	4250.5	511.0	354.8	294.5	267.8	263.3	287.8	312.4	339.2	345.8
40°	10538.2	3802.1	470.8	319.1	265.5	236.5	227.6	245.4	278.9	314.6	323.5
42.5°	10917.5	3431.7	426.2	283.4	236.5	196.4	185.2	205.3	241.0	278.9	290.1
45°	11279.0	3112.6	377.1	243.2	198.6	151.7	147.3	174.0	191.9	229.8	238.7
47.5°	11477.6	2831.5	334.7	198.6	154.0	122.7	122.7	129.4	147.3	191.9	200.8
50°	11410.6	2606.1	290.1	147.3	107.1	93.7	93.7	91.5	118.3	154.0	160.7
52.5°	11276.8	2476.7	249.9	113.8	73.6	66.9	60.2	66.9	82.6	98.2	100.4
55°	11256.7	2454.4	209.7	91.5	51.3	44.6	33.5	33.5	33.5	31.2	26.8
57.5°	11412.9	2490.1	176.3	73.6	37.9	29.0	17.9	0.0	0.0	0.0	0.0
60°	11573.5	2528.0	151.7	51.3	26.8	15.6	2.2	0.0	0.0	0.0	0.0
62.5°	11305.8	2443.2	127.2	31.2	20.1	6.7	0.0	0.0	0.0	0.0	0.0
65°	9931.3	2079.5	100.4	22.3	13.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7064.2	1392.3	66.9	13.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	3224.2	582.4	42.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	689.5	180.7	29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	140.6	131.6	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	44.6	207.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	26.8	149.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.5	22.3	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)