

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: P192664

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192664
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-06-LED-E1-AFL-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA 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: 22774 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 249
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



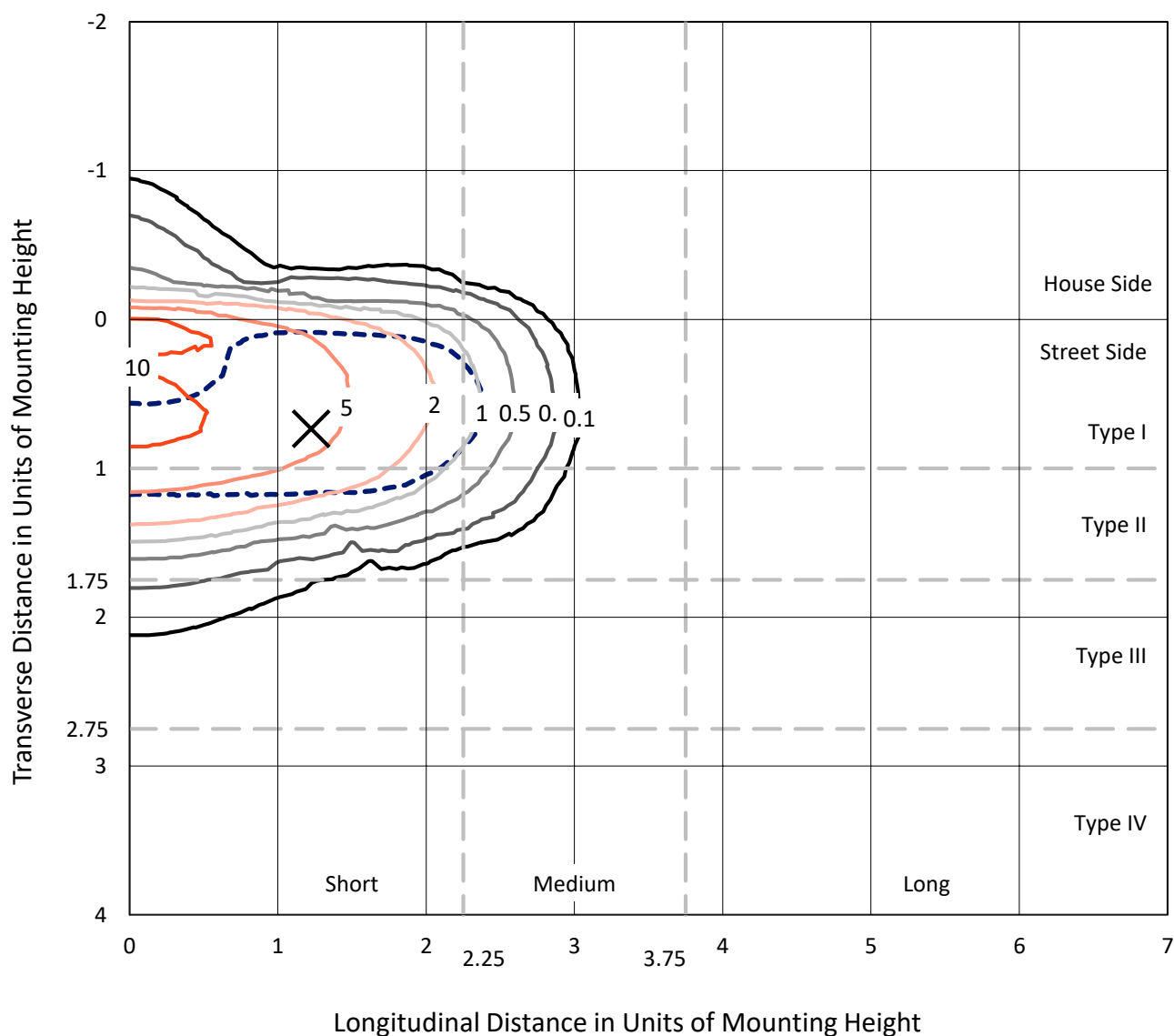
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

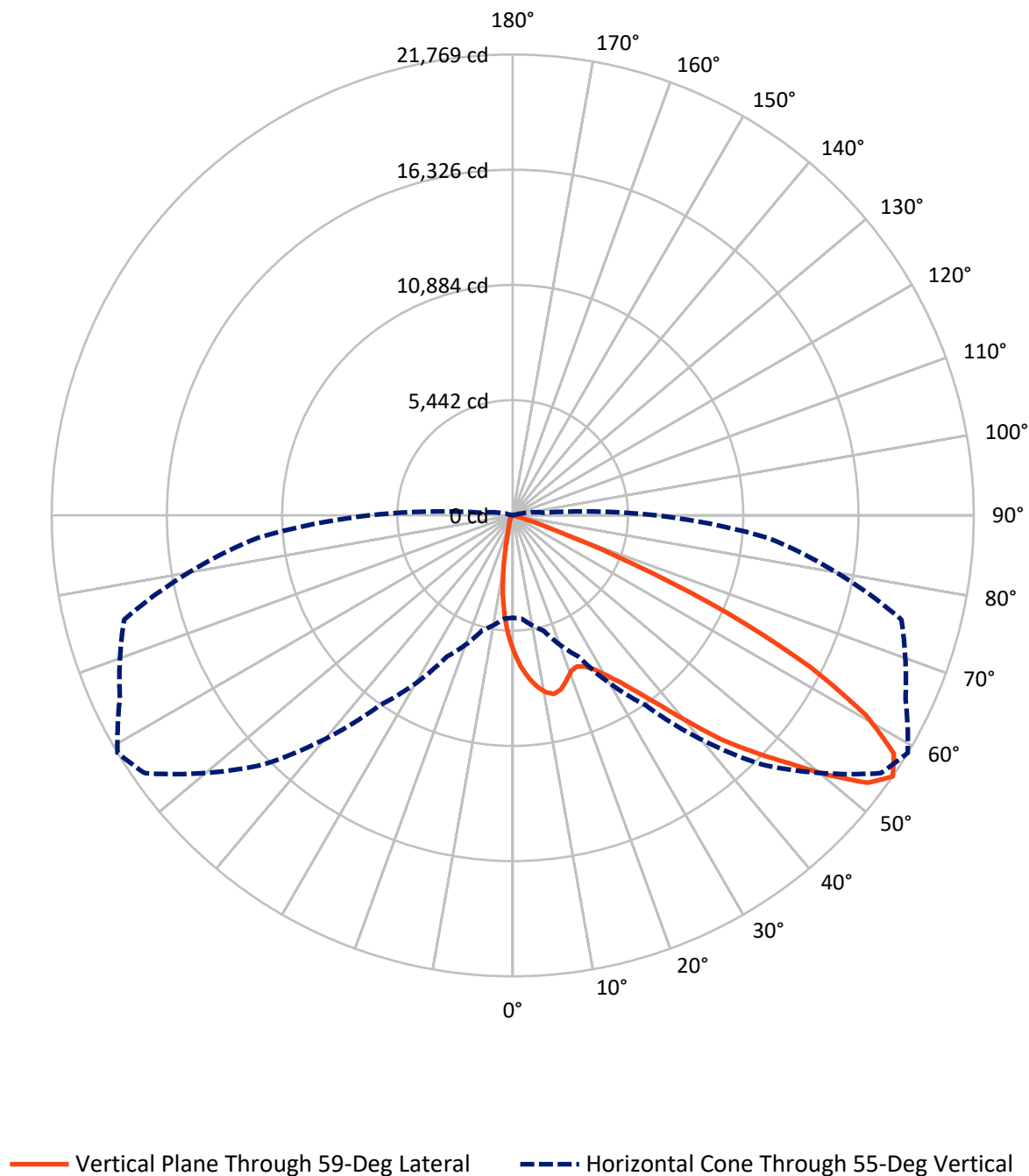


Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1272.0	0.0	1272.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	21501.9	0.0	21501.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	22774.0	0.0	22774.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.0	2.4
10°-20°	1285.7	5.6
20°-30°	2187.7	9.6
30°-40°	3762.4	16.5
40°-50°	5808.7	25.5
50°-60°	5839.6	25.6
60°-70°	2994.6	13.1
70°-80°	324.5	1.4
80°-90°	33.9	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°	22774.0	100.0
0°-180°	22774.0	100.0

Coefficient of Utilization



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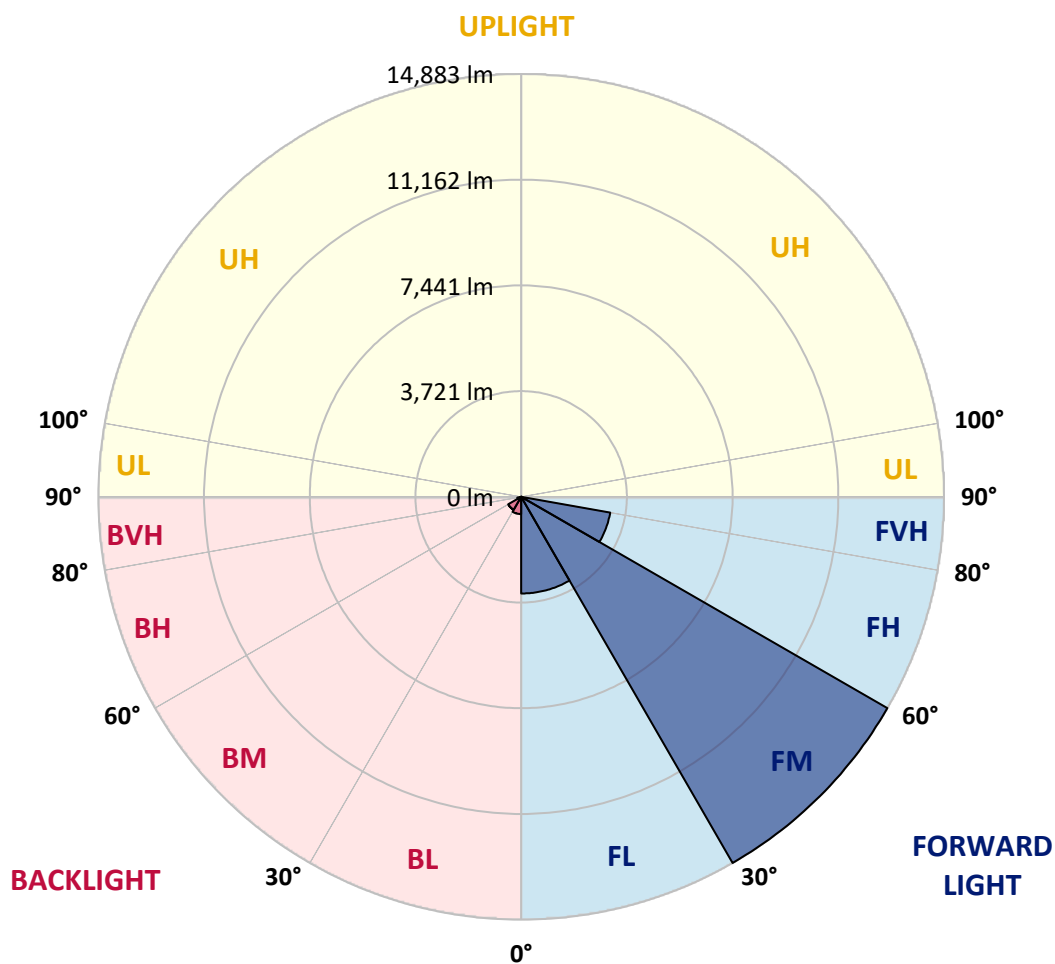
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3403.2	14.9			
FM	(30°-60°)	14882.7	65.3			
FH	(60°-80°)	3182.8	14.0			G2/5000
FVH	(80°-90°)	33.2	0.1			G1/100
BL	(0°-30°)	607.2	2.7	B2/1000		
BM	(30°-60°)	527.9	2.3	B1/1000		
BH	(60°-80°)	136.3	0.6	B1/500		G1/500
BVH	(80°-90°)	0.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8
2.5°	7585.5	7504.8	7480.7	7464.5	7390.6	7297.9	7171.4	7112.3	6991.4	6796.5	6557.3
5°	8280.3	8265.5	8211.7	8182.2	8102.8	7971.1	7769.5	7672.8	7480.7	7152.6	6724.0
7.5°	7976.6	8069.3	8143.2	8266.9	8422.7	8417.4	8248.0	8147.3	7932.2	7499.4	6909.4
10°	6803.2	6878.5	6999.4	7280.4	7852.9	8358.3	8557.1	8484.5	8312.6	7817.9	7088.2
12.5°	6573.5	6565.4	6586.9	6668.8	6968.5	7688.9	8504.7	8651.2	8616.3	8109.6	7257.5
15°	6695.7	6686.3	6683.6	6711.9	6784.5	7088.2	8111.0	8531.6	8801.7	8379.7	7401.3
17.5°	7038.5	6998.2	6976.6	6953.8	6932.3	7007.6	7637.9	8196.9	8830.0	8616.3	7521.0
20°	7625.7	7558.5	7479.3	7350.2	7229.2	7191.7	7438.9	7852.9	8729.2	8796.4	7598.9
22.5°	8363.6	8277.6	8140.5	7905.4	7659.4	7516.9	7537.0	7744.1	8578.6	8992.6	7635.1
25°	9192.8	9082.6	8899.8	8573.2	8211.7	7959.1	7827.4	7899.9	8510.1	9222.5	7676.9
27.5°	10081.3	9958.9	9719.7	9274.8	8864.9	8523.6	8254.7	8245.4	8627.0	9523.5	7744.1
30°	10961.6	10942.8	10630.9	10160.6	9617.5	9202.3	8815.1	8765.5	8953.6	9940.1	7877.0
32.5°	12136.2	11995.0	11613.3	11129.4	10503.2	10004.7	9546.3	9430.7	9455.0	10425.3	8082.7
35°	13617.2	13462.7	12925.1	12257.1	11556.9	10968.2	10461.6	10304.4	10245.1	11219.7	8429.5
37.5°	14574.2	14571.5	14234.1	13554.0	12802.8	12153.7	11602.6	11418.4	11298.8	12179.1	8967.0
40°	14599.7	14662.8	14707.2	14700.5	14165.6	13567.5	13078.4	12851.2	12573.0	13461.3	9661.9
42.5°	13816.2	13978.7	14369.9	15033.7	15350.9	15113.1	14700.5	14477.4	14063.5	14833.6	10508.5
45°	12757.1	12869.9	13554.0	14777.1	15993.4	16645.2	16330.8	15931.5	15385.9	16264.9	11267.9
47.5°	12282.7	12302.8	12745.0	14087.7	16041.8	17900.5	18091.3	17442.2	16587.4	17418.0	11861.9
50°	10864.7	10901.1	11511.2	12892.8	15474.6	18493.2	19860.0	19244.5	17897.9	18306.4	12078.4
52.5°	8188.9	8240.0	9014.1	10929.3	13915.6	18240.5	21126.1	20976.9	19333.2	18740.4	12090.5
55°	4831.7	4898.8	5638.0	7357.0	10945.4	16633.1	21220.2	21768.5	20466.2	18997.2	12071.6
57.5°	2256.5	2303.6	2726.9	3789.9	6807.3	13145.5	19803.6	21225.5	21091.1	19132.9	12204.7
60°	1198.8	1212.2	1314.4	1641.0	3076.4	8335.4	17039.0	19166.6	20521.3	19321.1	12367.4
62.5°	916.5	920.6	915.3	954.3	1292.9	3699.9	12879.4	15756.9	18227.0	19180.0	12187.3
65°	794.4	801.0	763.4	754.0	829.3	1319.8	7651.3	11231.7	14322.8	17275.5	10960.3
67.5°	712.3	715.0	669.3	630.3	643.7	713.7	3018.7	6148.7	9480.4	12663.0	7944.2
70°	655.9	653.2	603.4	541.6	524.1	487.9	959.7	2253.9	4530.6	6421.6	3694.6
72.5°	580.6	582.0	557.8	477.1	435.4	341.3	444.9	657.2	1352.1	1749.9	865.6
75°	514.7	508.0	478.4	427.4	358.8	224.4	220.3	293.1	416.6	414.0	186.9
77.5°	372.2	365.6	375.0	350.8	275.6	145.1	110.3	141.2	169.4	164.0	52.5
80°	272.8	268.8	241.9	291.6	243.2	99.4	68.5	75.3	87.4	74.0	16.2
82.5°	186.9	185.5	170.7	161.2	138.4	60.5	43.0	47.1	56.5	41.6	8.0
85°	29.6	33.7	123.7	98.2	82.0	26.9	29.6	32.2	37.5	22.8	2.7
87.5°	0.0	0.0	57.8	51.1	16.2	10.7	17.5	18.8	18.8	12.1	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°	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8	6410.8
2.5°	6435.1	6300.6	6052.0	5795.2	5557.4	5273.8	5078.9	4932.4	4763.0	4717.4	4816.8
5°	6479.3	6225.4	5690.4	5108.5	4561.5	3955.3	3491.7	3124.9	2792.7	2679.9	2782.1
7.5°	6549.2	6171.6	5299.3	4341.1	3389.6	2443.4	1795.5	1369.6	1098.0	1017.4	1060.4
10°	6619.2	6093.6	4846.4	3432.5	2131.5	1189.4	774.1	618.2	560.4	548.4	555.0
12.5°	6677.0	5988.8	4294.0	2440.7	1139.7	637.1	506.6	481.2	473.1	473.1	475.9
15°	6711.9	5830.2	3639.5	1552.2	655.9	481.2	442.2	434.1	434.1	435.4	438.1
17.5°	6707.9	5628.6	2923.1	939.4	490.6	426.0	403.1	396.5	395.1	397.8	399.2
20°	6658.0	5365.1	2204.1	619.6	427.4	388.4	365.6	353.5	352.2	354.8	357.5
22.5°	6564.0	5039.9	1576.5	477.1	385.6	352.2	324.0	313.1	313.1	315.9	318.5
25°	6449.8	4642.1	1077.9	404.6	348.1	313.1	286.3	276.9	279.6	286.3	287.6
27.5°	6307.3	4194.6	732.5	346.8	302.4	274.1	254.0	247.3	254.0	263.5	266.1
30°	6185.0	3728.3	522.8	299.7	256.6	236.5	224.4	224.4	233.9	251.3	255.3
32.5°	6090.9	3276.5	403.1	264.7	223.1	205.6	199.0	205.6	220.3	237.8	241.9
35°	6078.8	2904.3	341.3	236.5	199.0	181.5	178.7	190.8	205.6	219.1	221.8
37.5°	6171.6	2560.3	307.8	213.7	177.4	161.2	158.7	173.4	188.2	204.4	208.3
40°	6347.6	2290.2	283.5	192.2	159.9	142.5	137.1	147.8	168.0	189.4	194.9
42.5°	6576.1	2067.0	256.6	170.7	142.5	118.2	111.6	123.7	145.1	168.0	174.7
45°	6793.8	1874.9	227.2	146.5	119.6	91.3	88.7	104.8	115.6	138.4	143.7
47.5°	6913.5	1705.5	201.6	119.6	92.8	74.0	74.0	77.9	88.7	115.6	121.0
50°	6873.2	1569.7	174.7	88.7	64.5	56.5	56.5	55.0	71.2	92.8	96.8
52.5°	6792.5	1491.8	150.6	68.5	44.4	40.3	36.3	40.3	49.7	59.1	60.5
55°	6780.4	1478.4	126.3	55.0	30.9	26.9	20.2	20.2	20.2	18.8	16.2
57.5°	6874.5	1499.9	106.2	44.4	22.8	17.5	10.7	0.0	0.0	0.0	0.0
60°	6971.3	1522.7	91.3	30.9	16.2	9.4	1.3	0.0	0.0	0.0	0.0
62.5°	6809.9	1471.6	76.6	18.8	12.1	4.1	0.0	0.0	0.0	0.0	0.0
65°	5982.1	1252.5	60.5	13.4	8.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4255.1	838.7	40.3	8.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	1942.1	350.8	25.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	415.3	108.8	17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	84.6	79.3	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	26.9	125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.2	90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.7	13.4	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)