

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: P192684

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192684
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-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 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: 30920.4 lumens
Efficiency: N/A
Efficacy: 80.9 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): 382
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



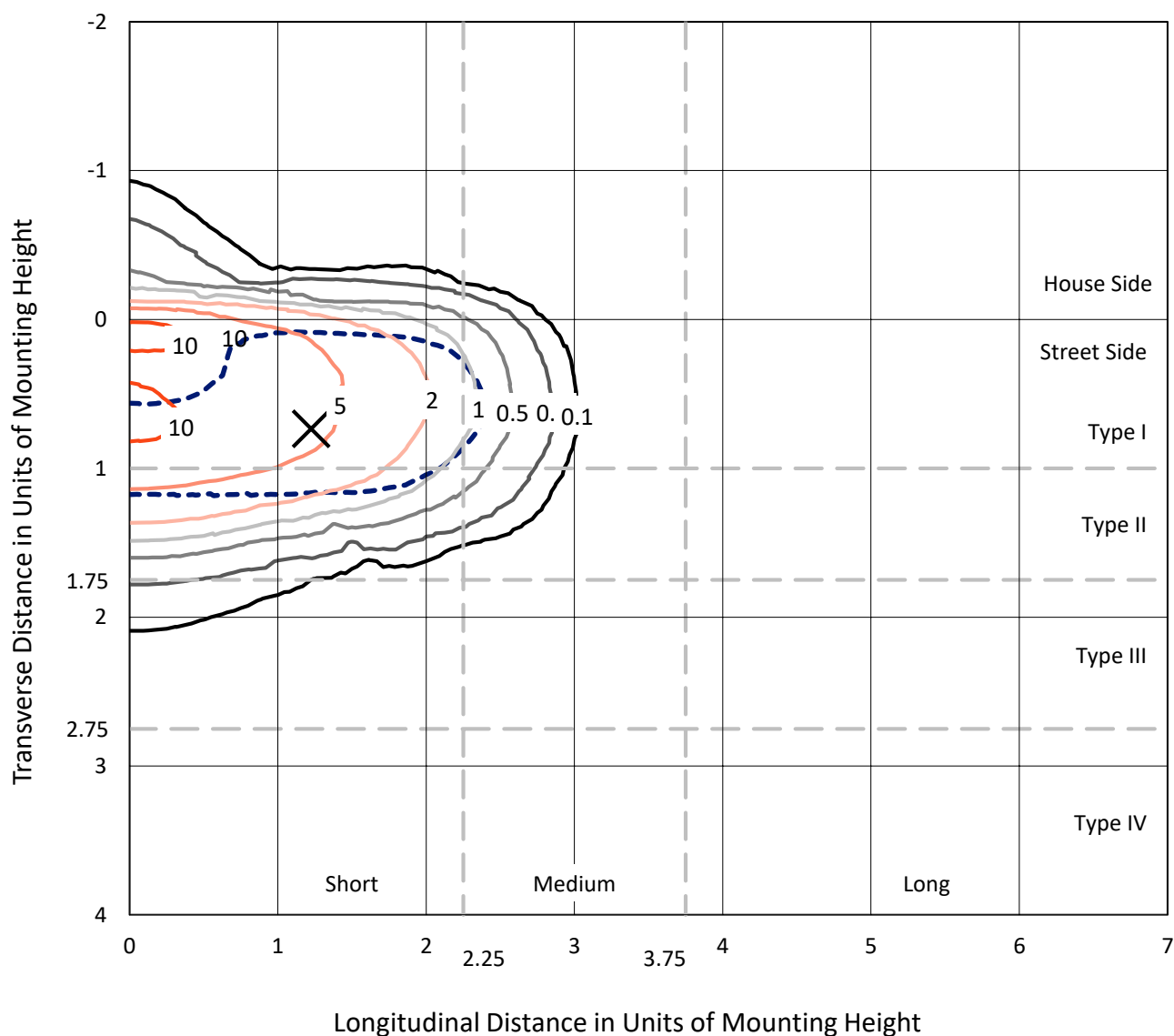
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

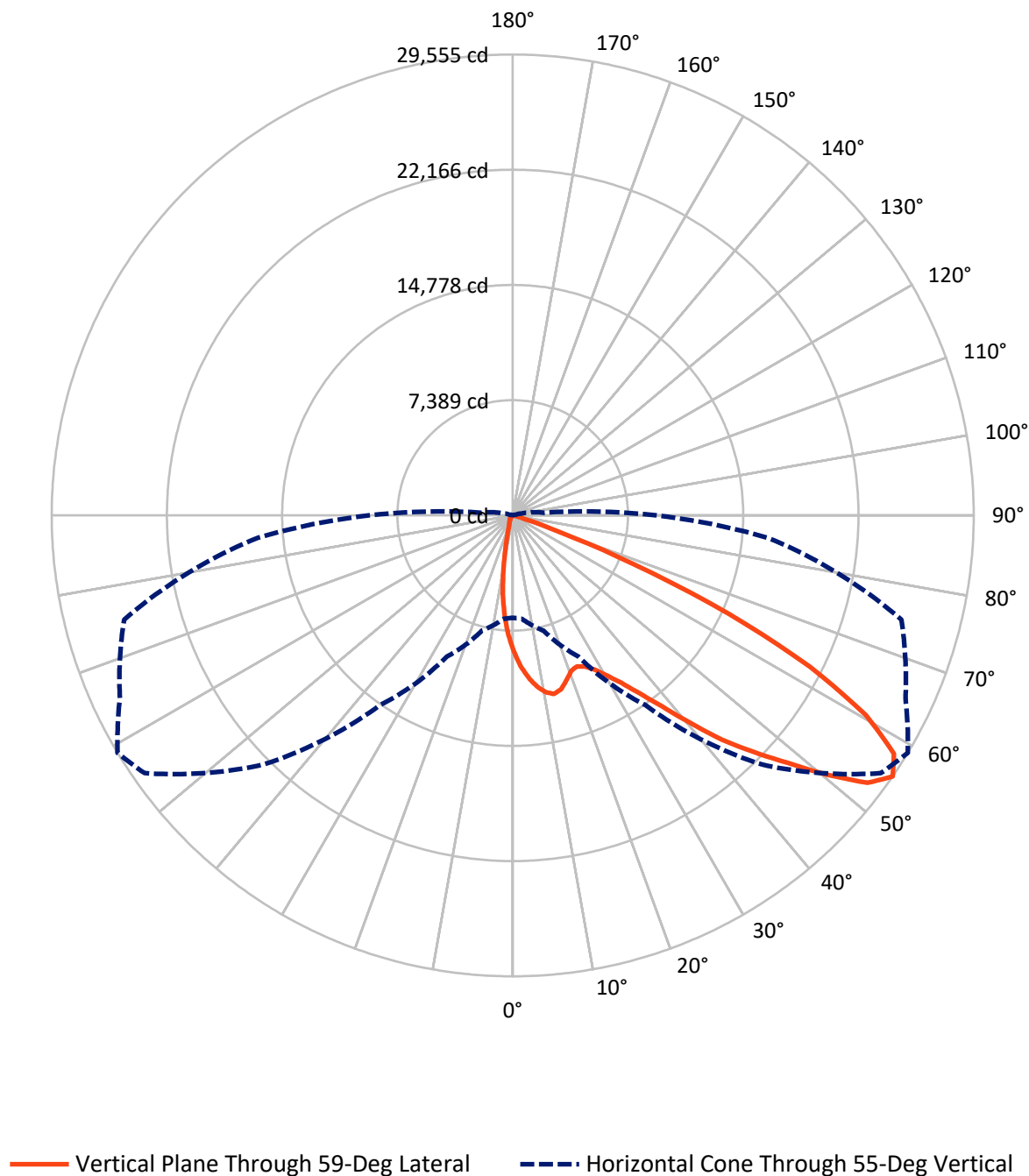


Based on 30 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1727.1	0.0	1727.1
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	29193.3	0.0	29193.3
	% Fixture	94.4	0.0	94.4
Total	Lumens	30920.4	0.0	30920.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	729.0	2.4
10°-20°	1745.5	5.6
20°-30°	2970.3	9.6
30°-40°	5108.2	16.5
40°-50°	7886.5	25.5
50°-60°	7928.4	25.6
60°-70°	4065.8	13.1
70°-80°	440.6	1.4
80°-90°	46.1	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°	30920.4	100.0
0°-180°	30920.4	100.0

Coefficient of Utilization



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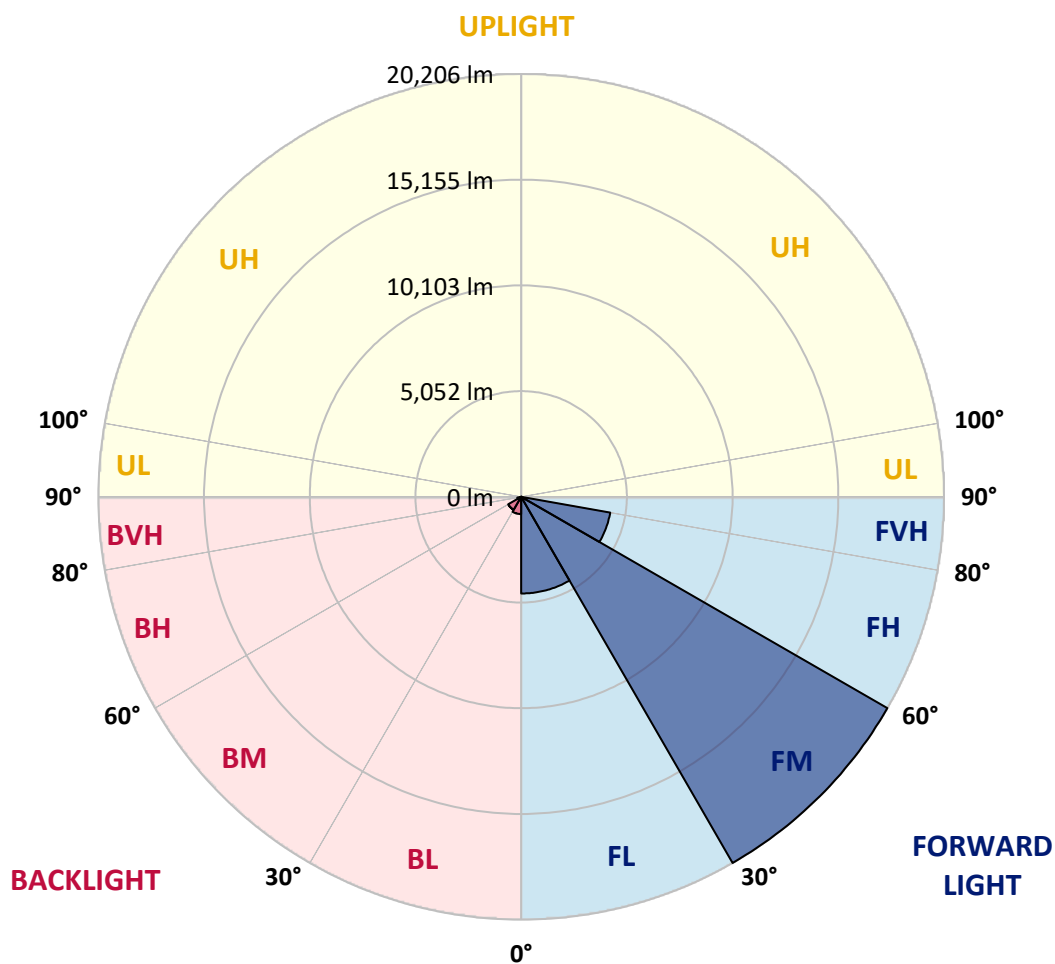
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4620.5	14.9			
FM	(30°-60°)	20206.3	65.3			
FH	(60°-80°)	4321.3	14.0			G2/5000
FVH	(80°-90°)	45.1	0.1			G1/100
BL	(0°-30°)	824.3	2.7	B2/1000		
BM	(30°-60°)	716.8	2.3	B1/1000		
BH	(60°-80°)	185.0	0.6	B1/500		G1/500
BVH	(80°-90°)	1.0	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°	8703.9	8703.9	8703.9	8703.9	8703.9	8703.9	8703.9	8703.9	8703.9	8703.9	8703.9
2.5°	10298.8	10189.3	10156.4	10134.6	10034.2	9908.2	9736.7	9656.5	9492.2	9227.7	8902.9
5°	11242.1	11222.1	11149.2	11108.9	11001.4	10822.4	10548.8	10417.5	10156.4	9711.2	9129.1
7.5°	10829.8	10955.7	11056.1	11223.8	11435.6	11428.3	11198.4	11061.5	10769.5	10182.0	9381.0
10°	9236.8	9338.9	9503.2	9884.5	10661.9	11348.0	11618.1	11519.5	11285.9	10614.4	9623.7
12.5°	8924.8	8913.8	8943.0	9054.4	9461.2	10439.2	11546.9	11745.8	11698.4	11010.4	9853.5
15°	9090.8	9078.1	9074.4	9112.7	9211.2	9623.7	11012.2	11583.4	11950.1	11377.1	10048.8
17.5°	9556.2	9501.4	9472.2	9441.2	9411.9	9514.2	10369.9	11129.0	11988.5	11698.4	10211.2
20°	10353.5	10262.2	10154.7	9979.4	9815.2	9764.2	10099.9	10661.9	11851.7	11942.9	10317.1
22.5°	11355.4	11238.5	11052.4	10733.1	10399.2	10205.7	10233.1	10514.1	11647.2	12209.2	10366.3
25°	12481.1	12331.5	12083.4	11639.9	11149.2	10806.1	10627.2	10725.8	11554.1	12521.3	10422.9
27.5°	13687.4	13521.3	13196.5	12592.4	12035.9	11572.4	11207.5	11194.7	11712.9	12930.1	10514.1
30°	14882.5	14857.0	14433.5	13795.0	13057.8	12493.9	11968.4	11900.9	12156.4	13495.7	10694.8
32.5°	16477.3	16285.7	15767.5	15110.5	14260.3	13583.3	12961.1	12804.1	12837.0	14154.4	10973.9
35°	18488.2	18278.3	17548.4	16641.6	15690.8	14891.6	14203.7	13990.2	13909.9	15232.8	11444.7
37.5°	19787.4	19783.8	19325.8	18402.4	17382.4	16501.1	15752.9	15502.9	15340.5	16535.8	12174.6
40°	19822.1	19907.8	19968.0	19958.9	19232.7	18420.7	17756.5	17448.0	17070.3	18276.6	13118.0
42.5°	18758.2	18979.0	19510.0	20411.5	20842.1	20519.1	19958.9	19656.1	19094.0	20139.5	14267.6
45°	17320.4	17473.7	18402.4	20063.0	21714.3	22599.3	22172.3	21630.4	20889.5	22082.9	15298.6
47.5°	16676.2	16703.5	17303.9	19126.8	21780.0	24303.6	24562.7	23681.4	22520.8	23648.5	16105.1
50°	14751.1	14800.4	15628.9	17504.7	21010.0	25108.4	26964.1	26128.4	24300.0	24854.7	16398.8
52.5°	11118.1	11187.4	12238.4	14838.7	18893.3	24765.2	28683.0	28480.4	26248.8	25444.1	16415.3
55°	6559.9	6651.1	7654.7	9988.6	14860.6	22582.9	28810.7	29555.1	27787.1	25792.7	16389.8
57.5°	3063.7	3127.5	3702.4	5145.8	9242.2	17847.7	26887.4	28818.0	28635.5	25976.9	16570.4
60°	1627.6	1645.9	1784.6	2228.1	4176.8	11317.0	23134.0	26022.5	27861.8	26232.4	16791.2
62.5°	1244.5	1249.9	1242.6	1295.6	1755.4	5023.5	17486.4	21393.2	24747.0	26040.8	16546.7
65°	1078.4	1087.5	1036.5	1023.6	1125.8	1791.9	10388.2	15249.4	19446.2	23455.1	14880.7
67.5°	967.1	970.8	908.7	855.8	874.1	968.9	4098.4	8348.2	12871.7	17192.6	10786.0
70°	890.5	886.8	819.3	735.4	711.6	662.3	1302.8	3060.1	6151.2	8718.6	5016.2
72.5°	788.3	790.2	757.2	647.8	591.2	463.5	603.9	892.3	1835.7	2375.9	1175.1
75°	698.8	689.8	649.6	580.2	487.2	304.8	299.3	397.8	565.6	562.0	253.6
77.5°	505.5	496.4	509.1	476.3	374.1	197.1	149.5	191.6	229.9	222.7	71.1
80°	370.4	364.9	328.5	395.9	330.3	135.1	93.1	102.1	118.6	100.4	21.9
82.5°	253.6	251.9	231.7	218.9	187.9	82.2	58.4	63.9	76.6	56.6	10.9
85°	40.1	45.7	167.8	133.2	111.3	36.5	40.1	43.8	51.2	31.0	3.6
87.5°	0.0	0.0	78.4	69.4	21.9	14.6	23.7	25.5	25.5	16.4	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°	8703.9	8703.9	8703.9	8703.9	8703.9	8703.9	8703.9	8703.9	8703.9	8703.9	8703.9
2.5°	8736.8	8554.4	8216.8	7868.2	7545.2	7160.2	6895.7	6696.7	6466.8	6404.8	6539.8
5°	8797.0	8452.2	7725.9	6935.8	6193.2	5370.2	4740.6	4242.5	3791.9	3638.6	3777.2
7.5°	8891.9	8379.2	7194.9	5893.9	4602.0	3317.3	2437.8	1859.4	1490.9	1381.4	1439.7
10°	8986.8	8273.3	6580.0	4660.4	2894.1	1614.9	1051.1	839.3	760.9	744.5	753.6
12.5°	9065.2	8131.0	5830.0	3313.8	1547.3	864.9	687.9	653.3	642.3	642.3	645.9
15°	9112.7	7915.8	4941.4	2107.6	890.5	653.3	600.4	589.4	589.4	591.2	594.9
17.5°	9107.2	7642.0	3968.9	1275.5	666.1	578.4	547.4	538.3	536.5	540.1	541.9
20°	9039.7	7284.4	2992.6	841.2	580.2	527.4	496.4	479.8	478.1	481.8	485.3
22.5°	8911.9	6842.8	2140.4	647.8	523.7	478.1	439.8	425.1	425.1	428.9	432.4
25°	8756.9	6302.6	1463.4	549.2	472.6	425.1	388.6	375.9	379.5	388.6	390.5
27.5°	8563.5	5695.0	994.5	470.8	410.6	372.2	344.8	335.8	344.8	357.6	361.3
30°	8397.4	5061.8	709.8	406.9	348.5	321.1	304.8	304.8	317.5	341.2	346.7
32.5°	8269.8	4448.7	547.4	359.5	302.8	279.1	270.1	279.1	299.3	323.0	328.5
35°	8253.2	3943.2	463.5	321.1	270.1	246.4	242.7	259.2	279.1	297.4	301.1
37.5°	8379.2	3476.1	417.9	290.1	240.9	218.9	215.3	235.4	255.4	277.4	282.9
40°	8618.3	3109.3	385.0	260.9	217.1	193.4	186.1	200.7	228.2	257.3	264.6
42.5°	8928.4	2806.5	348.5	231.7	193.4	160.6	151.5	167.8	197.1	228.2	237.2
45°	9224.0	2545.5	308.3	198.9	162.4	124.1	120.4	142.4	156.9	187.9	195.2
47.5°	9386.5	2315.5	273.7	162.4	125.8	100.4	100.4	105.9	120.4	156.9	164.2
50°	9331.8	2131.3	237.2	120.4	87.6	76.6	76.6	74.9	96.7	125.8	131.3
52.5°	9222.2	2025.4	204.5	93.1	60.2	54.7	49.2	54.7	67.5	80.3	82.2
55°	9205.7	2007.2	171.5	74.9	41.9	36.5	27.5	27.5	27.5	25.5	21.9
57.5°	9333.5	2036.4	144.1	60.2	31.0	23.7	14.6	0.0	0.0	0.0	0.0
60°	9464.9	2067.4	124.1	41.9	21.9	12.8	1.8	0.0	0.0	0.0	0.0
62.5°	9245.9	1998.2	104.1	25.5	16.4	5.5	0.0	0.0	0.0	0.0	0.0
65°	8121.9	1700.6	82.2	18.2	10.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5777.1	1138.6	54.7	10.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	2636.8	476.3	34.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	563.9	147.8	23.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	114.9	107.6	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	36.5	169.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	21.9	122.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.6	18.2	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)