

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: P200671

Luminaire Tested: **GWC-AF-01-LED-E1-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-T3-8030
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5189 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 59
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



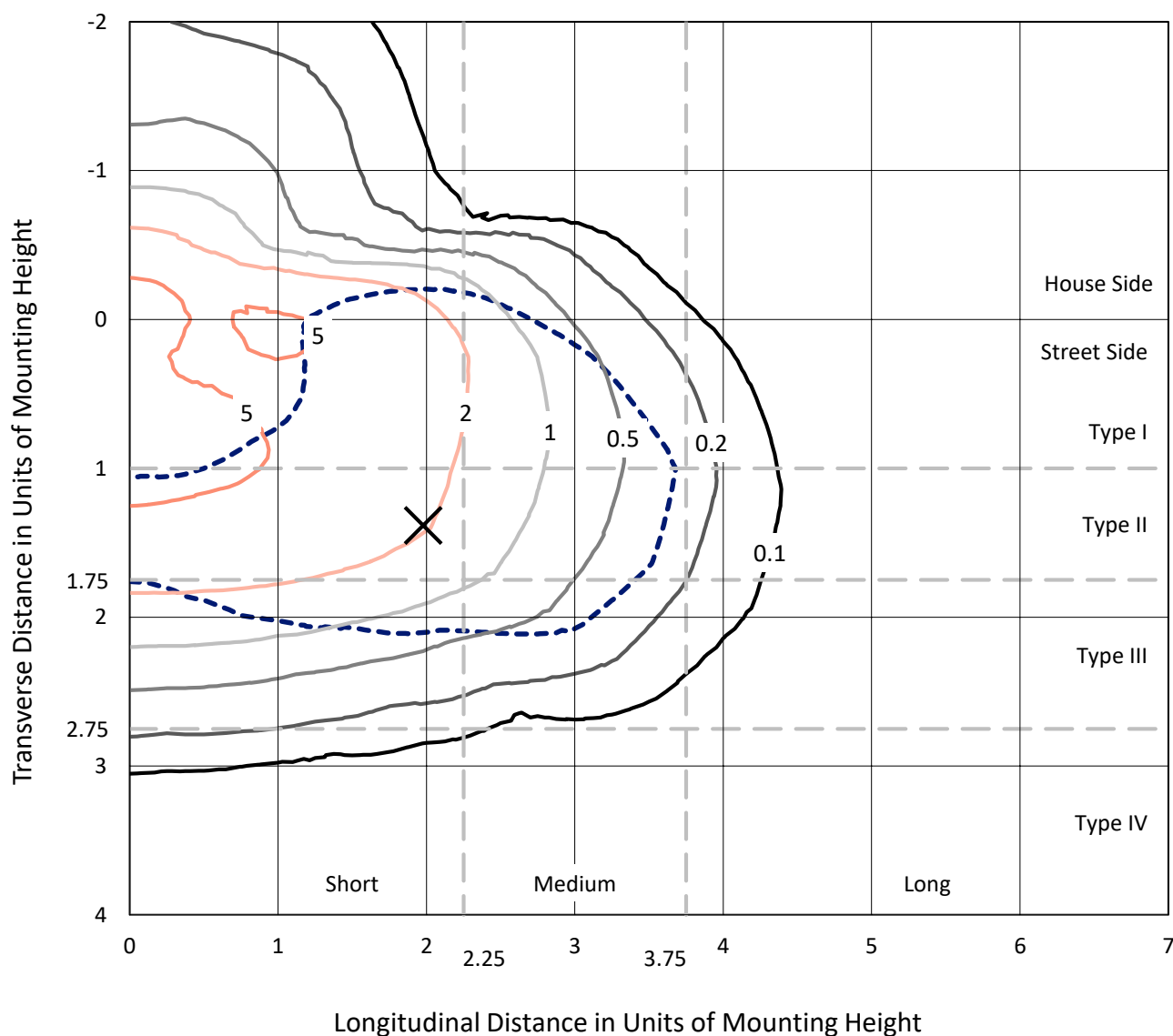
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

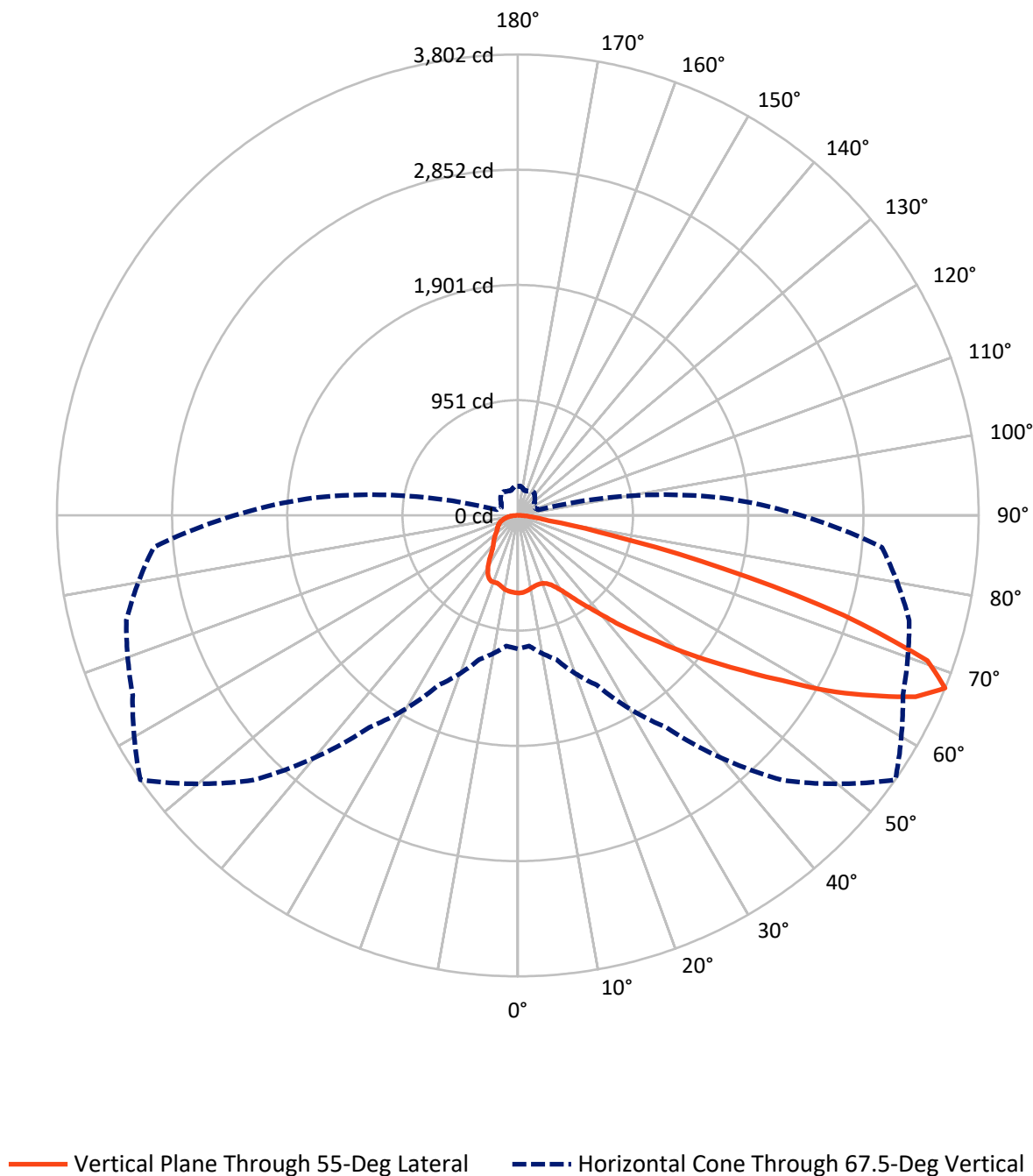


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1120.9	0.0	1120.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	4068.1	0.0	4068.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	5189.0	0.0	5189.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.7	1.2
10°-20°	169.1	3.3
20°-30°	283.3	5.5
30°-40°	465.9	9.0
40°-50°	784.3	15.1
50°-60°	1234.5	23.8
60°-70°	1473.2	28.4
70°-80°	632.6	12.2
80°-90°	86.2	1.7
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°	5189.0	100.0
0°-180°	5189.0	100.0

Coefficient of Utilization



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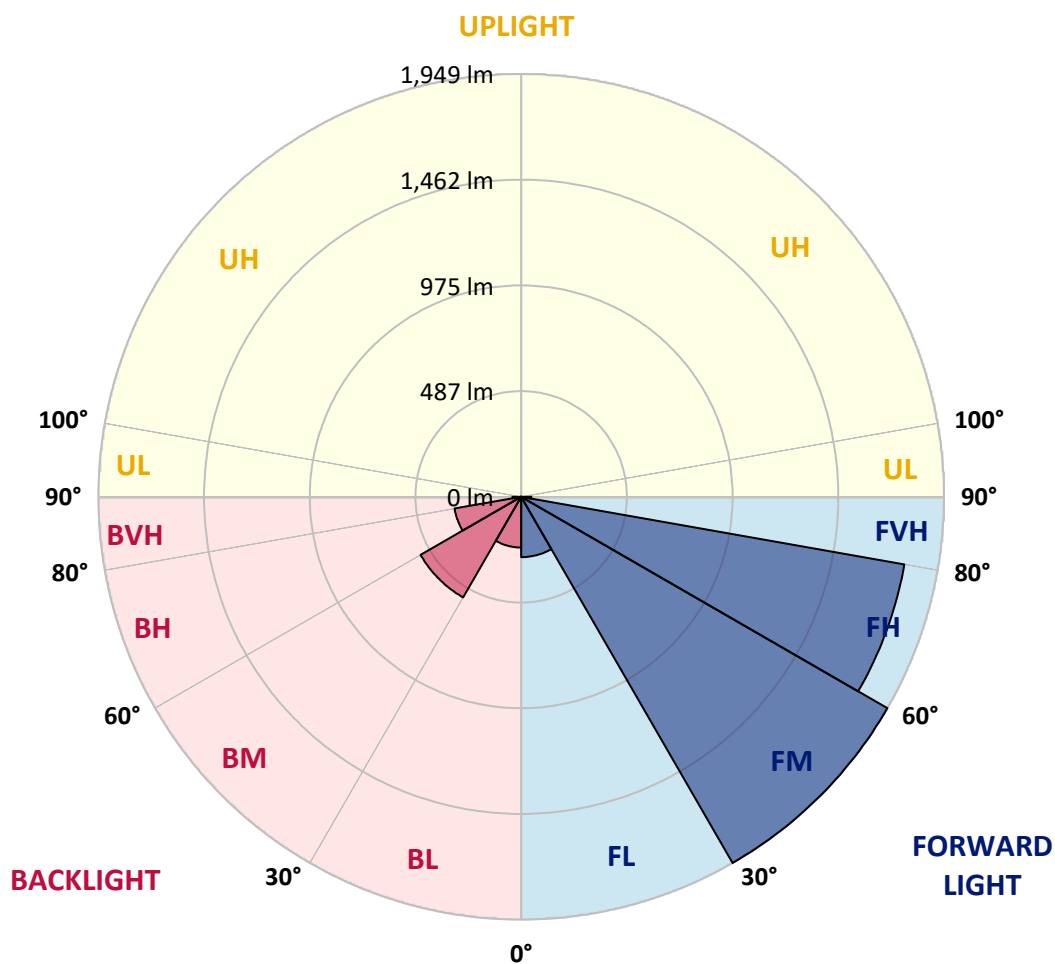
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	278.1	5.4			
FM	(30°-60°)	1949.4	37.6			
FH	(60°-80°)	1793.9	34.6			G1/1800
FVH	(80°-90°)	46.7	0.9			G1/100
BL	(0°-30°)	234.1	4.5	B1/500		
BM	(30°-60°)	535.3	10.3	B1/1000		
BH	(60°-80°)	311.9	6.0	B1/500		G1/500
BVH	(80°-90°)	39.6	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9
2.5°	634.3	634.6	635.1	637.1	638.9	638.4	638.6	637.6	637.4	635.9	637.4
5°	626.3	627.1	627.3	630.6	632.6	633.1	632.3	631.1	629.6	628.1	628.8
7.5°	608.0	610.0	610.3	614.8	618.1	622.3	622.6	622.8	622.1	621.1	622.6
10°	596.5	597.0	596.8	600.0	602.5	607.3	610.0	614.8	616.8	617.3	618.3
12.5°	595.7	595.2	594.5	594.5	593.7	595.7	600.8	607.5	612.3	613.8	615.0
15°	603.8	603.5	601.0	597.3	592.5	591.0	595.2	602.8	609.0	612.3	613.5
17.5°	621.8	620.3	616.3	607.8	597.5	593.5	594.0	600.3	607.5	611.8	613.0
20°	654.9	654.9	646.4	630.3	612.0	602.5	598.0	601.8	608.8	614.5	616.3
22.5°	712.0	712.5	698.3	671.9	641.1	620.8	609.5	608.8	617.1	623.6	625.6
25°	793.0	791.0	770.9	733.3	686.5	652.9	633.3	628.8	635.9	643.1	645.6
27.5°	887.2	880.0	856.2	810.8	750.1	701.0	670.9	663.7	670.4	678.7	681.2
30°	980.5	972.9	944.6	895.0	827.6	765.4	722.3	710.5	720.1	731.8	733.3
32.5°	1073.7	1073.7	1042.1	984.2	910.8	842.4	790.7	776.7	792.5	806.8	810.0
35°	1185.2	1185.7	1155.2	1085.5	1006.5	934.1	877.2	866.9	890.7	900.8	908.5
37.5°	1322.3	1325.1	1285.7	1201.5	1115.1	1038.9	971.2	957.2	981.0	1008.3	1033.4
40°	1470.5	1474.0	1430.6	1326.8	1240.4	1160.7	1087.5	1062.2	1101.8	1153.9	1186.2
42.5°	1611.8	1629.9	1588.0	1481.2	1388.2	1305.8	1231.6	1194.8	1244.4	1323.1	1351.2
45°	1816.1	1829.1	1756.2	1659.4	1572.0	1479.7	1381.5	1342.6	1412.1	1511.3	1517.1
47.5°	1952.2	1942.4	1905.3	1845.1	1789.8	1703.5	1555.7	1513.1	1605.3	1722.1	1689.8
50°	2024.6	2027.6	2022.6	2026.1	2028.1	1974.0	1769.2	1710.8	1820.8	1961.9	1887.5
52.5°	2092.3	2072.2	2088.8	2171.0	2270.2	2250.2	2001.5	1940.6	2051.9	2228.1	2096.5
55°	2090.8	2060.2	2114.1	2259.2	2474.5	2497.5	2262.4	2192.3	2296.3	2513.6	2318.1
57.5°	2016.8	2018.3	2101.3	2291.3	2616.8	2730.1	2565.2	2459.9	2555.4	2802.8	2520.3
60°	1915.1	1928.9	2048.4	2286.0	2730.9	2920.9	2936.6	2748.4	2809.3	3065.7	2687.8
62.5°	1750.9	1765.4	1930.4	2231.4	2713.6	3104.6	3272.5	3075.7	3074.7	3225.1	2736.9
65°	1492.0	1487.7	1660.9	2027.1	2568.5	3240.4	3606.1	3358.7	3274.7	3227.6	2638.1
67.5°	1100.3	1081.2	1229.8	1543.9	2134.9	3088.3	3802.3	3506.1	3342.9	3015.3	2336.4
70°	570.9	551.9	672.2	901.5	1404.0	2410.3	3585.0	3429.9	3192.3	2527.6	1830.4
72.5°	244.1	240.9	289.7	395.5	679.2	1390.2	2811.1	2968.7	2739.1	1883.2	1258.4
75°	164.2	163.2	181.5	215.5	305.5	564.2	1759.2	2107.3	2004.0	1167.7	707.8
77.5°	128.8	127.6	138.3	154.9	198.0	222.6	780.7	1131.3	1047.1	508.3	309.8
80°	100.8	99.8	106.5	115.5	142.4	140.4	256.9	450.1	348.4	194.7	150.6
82.5°	79.4	79.4	85.0	85.2	101.0	95.7	134.1	198.2	173.9	113.5	92.2
85°	72.7	72.7	78.4	63.7	65.9	60.4	83.2	117.5	110.3	46.6	40.1
87.5°	36.6	35.6	65.9	56.4	35.8	32.1	40.6	56.9	61.2	25.8	20.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9	639.9
2.5°	636.9	636.6	637.1	637.4	639.4	642.1	643.4	645.1	646.1	645.6
5°	629.3	629.8	631.8	633.3	636.9	641.4	643.9	645.9	647.6	646.9
7.5°	623.1	624.3	627.3	628.6	630.6	631.8	631.6	632.3	633.8	632.1
10°	619.6	621.1	623.3	621.6	616.8	610.0	603.8	600.5	601.5	600.3
12.5°	616.1	618.1	616.3	608.0	594.7	586.0	581.2	581.7	584.0	584.5
15°	614.0	614.8	607.3	591.7	578.2	577.0	579.5	579.0	579.2	579.2
17.5°	614.0	612.0	598.0	582.5	576.7	574.4	566.7	556.9	552.6	551.1
20°	617.3	612.0	595.0	584.7	572.2	552.9	532.3	514.3	506.3	504.0
22.5°	627.1	618.1	603.5	585.7	550.1	517.8	485.2	463.7	449.1	446.6
25°	646.9	636.9	620.3	572.4	515.0	468.9	431.8	407.8	393.2	391.2
27.5°	681.5	674.9	629.3	543.1	468.4	419.1	384.7	366.2	355.4	354.6
30°	733.6	730.3	624.8	499.8	411.0	370.7	354.1	343.4	335.3	335.1
32.5°	816.8	790.5	610.0	446.9	358.7	336.3	329.6	323.1	316.8	316.8
35°	923.8	839.1	582.0	390.2	326.8	317.3	308.8	298.5	290.2	289.7
37.5°	1049.6	869.2	531.6	344.6	311.8	304.5	292.0	276.7	262.2	259.7
40°	1176.7	878.2	460.7	316.5	302.3	291.7	276.4	258.4	244.4	243.6
42.5°	1293.3	860.9	385.5	297.2	292.7	278.7	262.7	246.6	235.6	235.3
45°	1391.0	816.1	322.3	279.0	282.7	266.9	252.6	239.6	231.1	229.3
47.5°	1483.0	752.6	277.9	259.7	272.7	260.4	248.4	236.1	227.8	226.6
50°	1589.8	684.2	246.9	240.9	263.9	258.1	251.9	239.1	225.3	223.8
52.5°	1719.1	625.1	222.6	224.3	257.1	261.2	260.9	247.6	223.6	221.6
55°	1863.4	559.4	204.3	210.8	254.4	266.7	263.2	255.6	225.1	222.1
57.5°	2005.5	482.7	191.5	200.5	250.4	266.2	252.4	241.6	228.6	224.3
60°	2112.1	379.7	181.7	191.5	241.6	257.9	240.6	226.3	227.8	224.6
62.5°	2119.1	293.5	169.9	183.7	228.3	249.6	232.8	219.6	231.1	228.1
65°	1994.5	221.8	158.6	174.4	214.0	244.4	225.3	215.8	237.8	234.6
67.5°	1679.2	178.4	149.1	164.9	199.8	233.3	218.6	212.3	243.9	238.1
70°	1212.3	152.1	139.9	153.4	187.0	220.8	212.5	206.0	227.6	218.6
72.5°	746.4	131.8	129.3	138.1	177.2	207.8	203.5	194.2	205.0	197.7
75°	372.7	114.3	117.5	123.1	163.4	193.0	188.5	179.2	180.7	179.2
77.5°	178.4	97.7	103.8	108.0	145.6	176.2	171.4	161.9	160.2	160.4
80°	113.0	81.7	87.5	90.5	130.1	156.6	151.9	142.4	162.4	150.6
82.5°	70.7	66.4	67.9	73.4	113.3	136.3	130.1	121.6	146.4	115.8
85°	39.1	46.4	48.4	53.1	87.2	114.0	107.8	97.0	87.0	85.5
87.5°	23.3	27.6	28.3	31.8	58.6	82.5	72.9	69.2	57.4	57.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)