

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: P200353

Luminaire Tested: **GWC-AF-01-LED-E1-T3-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200353
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-T3-7050-1200
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6975 lumens
Efficiency: N/A
Efficacy: 104.1 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 - G2

Input Watts (W): 67
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

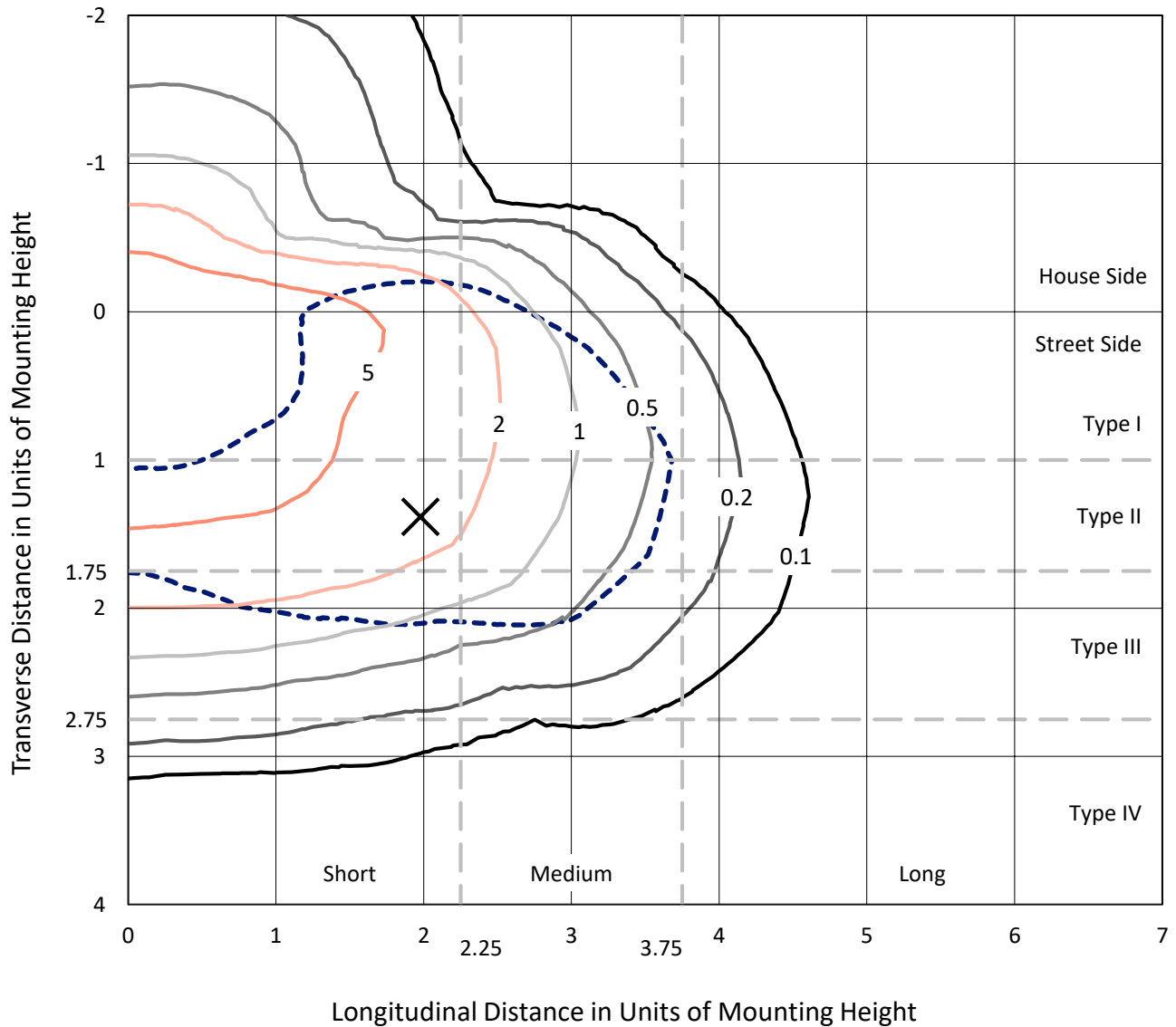


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Iso-Footcandle Lines of Horizontal Illumination

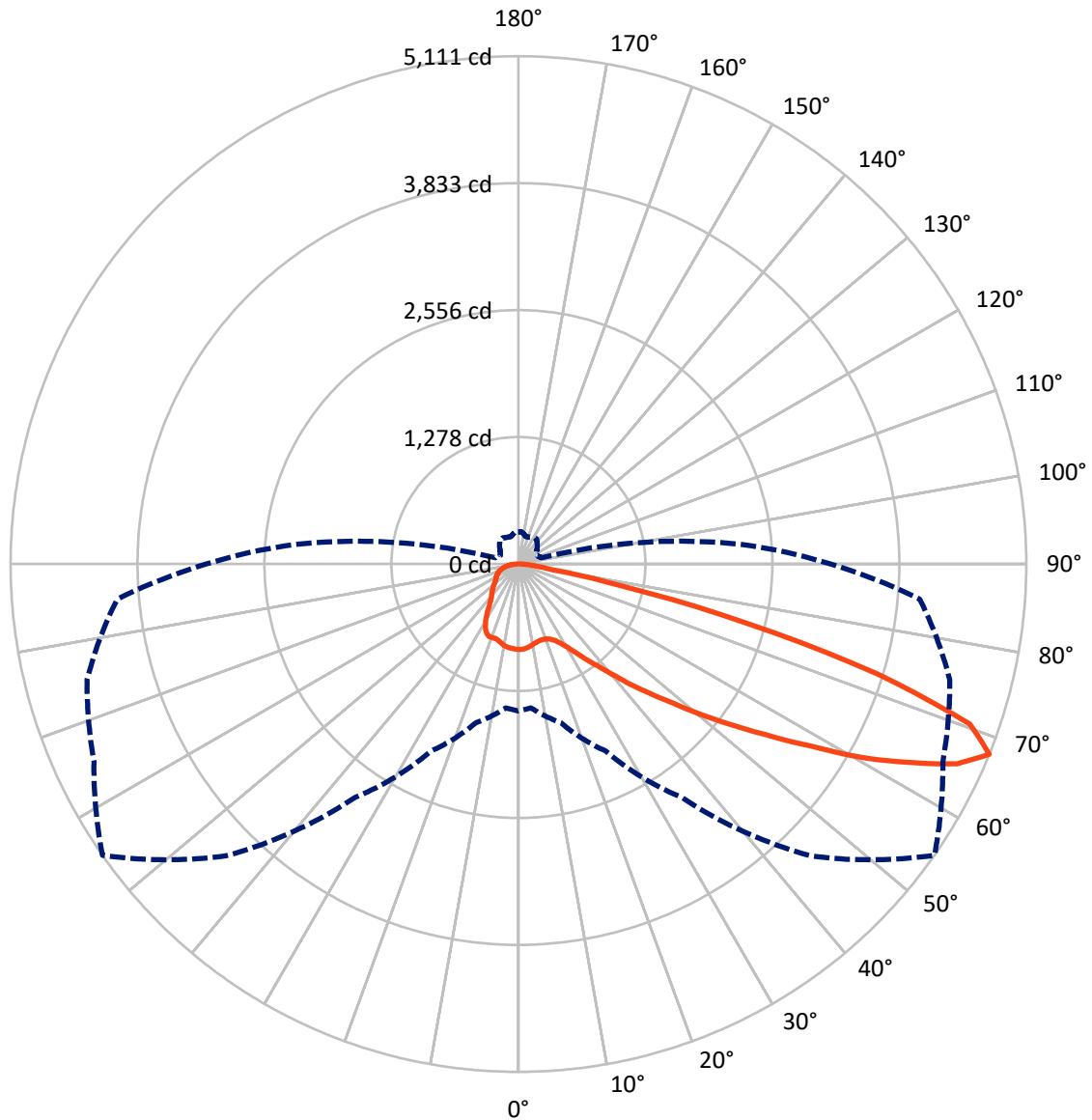
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1506.7	0.0	1506.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	5468.2	0.0	5468.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	6975.0	0.0	6975.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	1.2
10°-20°	227.4	3.3
20°-30°	380.9	5.5
30°-40°	626.3	9.0
40°-50°	1054.3	15.1
50°-60°	1659.3	23.8
60°-70°	1980.3	28.4
70°-80°	850.4	12.2
80°-90°	115.9	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°	6975.0	100.0
0°-180°	6975.0	100.0



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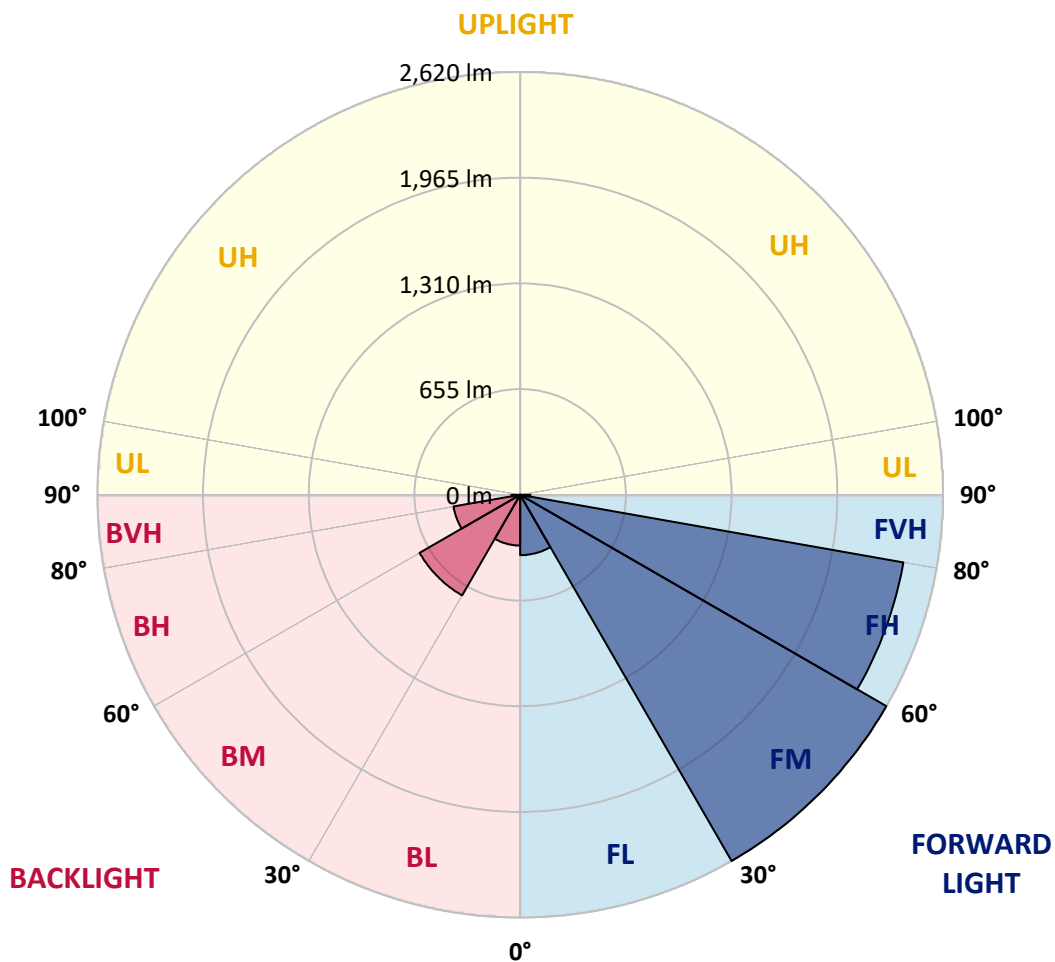
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	373.9	5.4			
FM (30°-60°)	2620.3	37.6			
FH (60°-80°)	2411.3	34.6			G2/5000
FVH (80°-90°)	62.8	0.9			G1/100
BL (0°-30°)	314.6	4.5	B1/500		
BM (30°-60°)	719.6	10.3	B1/1000		
BH (60°-80°)	419.3	6.0	B1/500		G1/500
BVH (80°-90°)	53.2	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1
2.5°	852.7	853.0	853.7	856.4	858.7	858.1	858.4	857.1	856.7	854.7	856.7
5°	841.9	842.9	843.2	847.6	850.3	851.0	850.0	848.3	846.3	844.3	845.3
7.5°	817.3	820.0	820.3	826.4	830.8	836.5	836.8	837.2	836.2	834.8	836.8
10°	801.8	802.5	802.1	806.5	809.9	816.3	820.0	826.4	829.1	829.8	831.1
12.5°	800.8	800.1	799.1	799.1	798.1	800.8	807.5	816.6	823.0	825.1	826.7
15°	811.6	811.2	807.9	802.8	796.4	794.4	800.1	810.2	818.7	823.0	824.7
17.5°	835.8	833.8	828.4	817.0	803.2	797.8	798.4	806.9	816.6	822.4	824.0
20°	880.3	880.3	868.9	847.3	822.7	809.9	803.8	808.9	818.3	826.1	828.4
22.5°	957.1	957.8	938.6	903.2	861.8	834.5	819.3	818.3	829.4	838.2	840.9
25°	1065.9	1063.2	1036.3	985.8	922.8	877.6	851.3	845.3	854.7	864.5	867.8
27.5°	1192.6	1182.8	1150.8	1089.9	1008.3	942.3	901.9	892.1	901.2	912.3	915.7
30°	1317.9	1307.8	1269.8	1203.1	1112.4	1028.9	970.9	955.1	967.9	983.7	985.8
32.5°	1443.3	1443.3	1400.8	1323.0	1224.3	1132.3	1062.9	1044.0	1065.3	1084.5	1088.8
35°	1593.2	1593.9	1552.8	1459.1	1353.0	1255.6	1179.1	1165.3	1197.3	1210.8	1221.2
37.5°	1777.5	1781.2	1728.3	1615.1	1498.8	1396.4	1305.5	1286.6	1318.6	1355.3	1389.0
40°	1976.6	1981.3	1923.0	1783.5	1667.3	1560.2	1461.8	1427.8	1481.0	1551.1	1594.5
42.5°	2166.6	2190.8	2134.6	1991.1	1866.1	1755.2	1655.5	1606.0	1672.7	1778.5	1816.2
45°	2441.1	2458.7	2360.6	2230.6	2113.0	1989.0	1857.0	1804.7	1898.1	2031.5	2039.2
47.5°	2624.1	2610.9	2561.1	2480.2	2405.8	2289.9	2091.1	2033.8	2157.8	2314.8	2271.3
50°	2721.4	2725.5	2718.7	2723.5	2726.2	2653.4	2378.1	2299.6	2447.5	2637.2	2537.2
52.5°	2812.4	2785.5	2807.7	2918.2	3051.6	3024.6	2690.4	2608.6	2758.2	2995.0	2818.1
55°	2810.4	2769.3	2841.7	3036.8	3326.2	3357.2	3041.2	2946.8	3086.6	3378.7	3115.9
57.5°	2711.0	2713.0	2824.5	3079.9	3517.5	3669.8	3448.1	3306.6	3435.0	3767.5	3387.8
60°	2574.2	2592.7	2753.4	3072.8	3670.8	3926.2	3947.4	3694.4	3776.3	4120.9	3612.9
62.5°	2353.6	2373.1	2594.8	2999.4	3647.6	4173.1	4398.8	4134.4	4133.0	4335.2	3678.9
65°	2005.5	1999.8	2232.6	2724.8	3452.5	4355.7	4847.2	4514.7	4401.9	4338.5	3546.2
67.5°	1479.0	1453.4	1653.1	2075.3	2869.7	4151.2	5111.0	4712.8	4493.5	4053.2	3140.5
70°	767.4	741.8	903.6	1211.8	1887.3	3239.9	4819.0	4610.4	4291.0	3397.6	2460.3
72.5°	328.1	323.8	389.5	531.6	913.0	1868.8	3778.6	3990.5	3681.9	2531.4	1691.6
75°	220.7	219.3	243.9	289.7	410.7	758.4	2364.7	2832.6	2693.8	1569.6	951.4
77.5°	173.2	171.5	186.0	208.2	266.1	299.2	1049.4	1520.7	1407.5	683.2	416.4
80°	135.4	134.1	143.2	155.3	191.4	188.7	345.3	605.1	468.3	261.8	202.5
82.5°	106.8	106.8	114.2	114.5	135.8	128.7	180.2	266.5	233.8	152.6	124.0
85°	97.7	97.7	105.4	85.6	88.6	81.2	111.8	158.0	148.2	62.7	53.9
87.5°	49.2	47.8	88.6	75.8	48.2	43.1	54.6	76.5	82.2	34.7	27.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1
2.5°	856.1	855.7	856.4	856.7	859.4	863.1	864.8	867.2	868.5	867.8
5°	845.9	846.6	849.3	851.3	856.1	862.1	865.5	868.2	870.5	869.5
7.5°	837.5	839.2	843.2	844.9	847.6	849.3	849.0	850.0	852.0	849.6
10°	832.8	834.8	837.9	835.5	829.1	820.0	811.6	807.2	808.5	806.9
12.5°	828.1	830.8	828.4	817.3	799.5	787.7	781.3	781.9	785.0	785.6
15°	825.4	826.4	816.3	795.4	777.2	775.5	778.9	778.2	778.6	778.6
17.5°	825.4	822.7	803.8	782.9	775.2	772.2	761.7	748.6	742.9	740.8
20°	829.8	822.7	799.8	786.0	769.1	743.2	715.6	691.3	680.5	677.5
22.5°	842.9	830.8	811.2	787.3	739.5	696.0	652.2	623.3	603.7	600.3
25°	869.5	856.1	833.8	769.5	692.3	630.3	580.5	548.1	528.6	525.9
27.5°	916.0	907.3	845.9	730.1	629.7	563.3	517.1	492.2	477.7	476.7
30°	986.1	981.7	839.9	671.8	552.5	498.3	476.0	461.5	450.8	450.4
32.5°	1097.9	1062.6	820.0	600.7	482.1	452.1	443.0	434.3	425.8	425.8
35°	1241.8	1127.9	782.3	524.5	439.3	426.5	415.1	401.2	390.1	389.5
37.5°	1410.9	1168.4	714.6	463.2	419.1	409.3	392.5	371.9	352.4	349.0
40°	1581.7	1180.5	619.2	425.5	406.3	392.1	371.6	347.3	328.5	327.5
42.5°	1738.4	1157.2	518.1	399.6	393.5	374.6	353.1	331.5	316.7	316.3
45°	1869.8	1096.9	433.2	375.0	380.0	358.8	339.6	322.1	310.6	308.3
47.5°	1993.4	1011.7	373.6	349.0	366.5	350.0	333.9	317.4	306.2	304.6
50°	2136.9	919.7	331.8	323.8	354.8	347.0	338.6	321.4	302.9	300.8
52.5°	2310.8	840.2	299.2	301.5	345.7	351.0	350.7	332.9	300.5	297.8
55°	2504.8	752.0	274.6	283.3	341.9	358.5	353.7	343.6	302.5	298.5
57.5°	2695.8	648.9	257.4	269.5	336.6	357.8	339.3	324.8	307.2	301.5
60°	2839.0	510.4	244.2	257.4	324.8	346.7	323.4	304.2	306.2	301.9
62.5°	2848.4	394.5	228.4	246.9	306.9	335.5	313.0	295.1	310.6	306.6
65°	2681.0	298.2	213.3	234.5	287.7	328.5	302.9	290.1	319.7	315.3
67.5°	2257.2	239.9	200.5	221.7	268.5	313.6	293.8	285.4	327.8	320.1
70°	1629.6	204.5	188.0	206.2	251.3	296.8	285.7	276.9	305.9	293.8
72.5°	1003.3	177.2	173.8	185.6	238.2	279.3	273.6	261.1	275.6	265.8
75°	501.0	153.6	158.0	165.4	219.7	259.4	253.3	240.9	242.9	240.9
77.5°	239.9	131.4	139.5	145.2	195.7	236.8	230.4	217.6	215.3	215.6
80°	151.9	109.8	117.6	121.6	174.8	210.6	204.2	191.4	218.3	202.5
82.5°	95.0	89.3	91.3	98.7	152.3	183.3	174.8	163.4	196.7	155.6
85°	52.6	62.3	65.0	71.4	117.2	153.3	144.9	130.4	116.9	114.9
87.5°	31.3	37.1	38.1	42.8	78.8	110.8	98.0	93.0	77.1	76.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)