

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: P200189

Luminaire Tested: **GWC-AF-01-LED-E1-T3-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200189
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-T3-800
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5255.9 lumens
Efficiency: N/A
Efficacy: 119.5 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

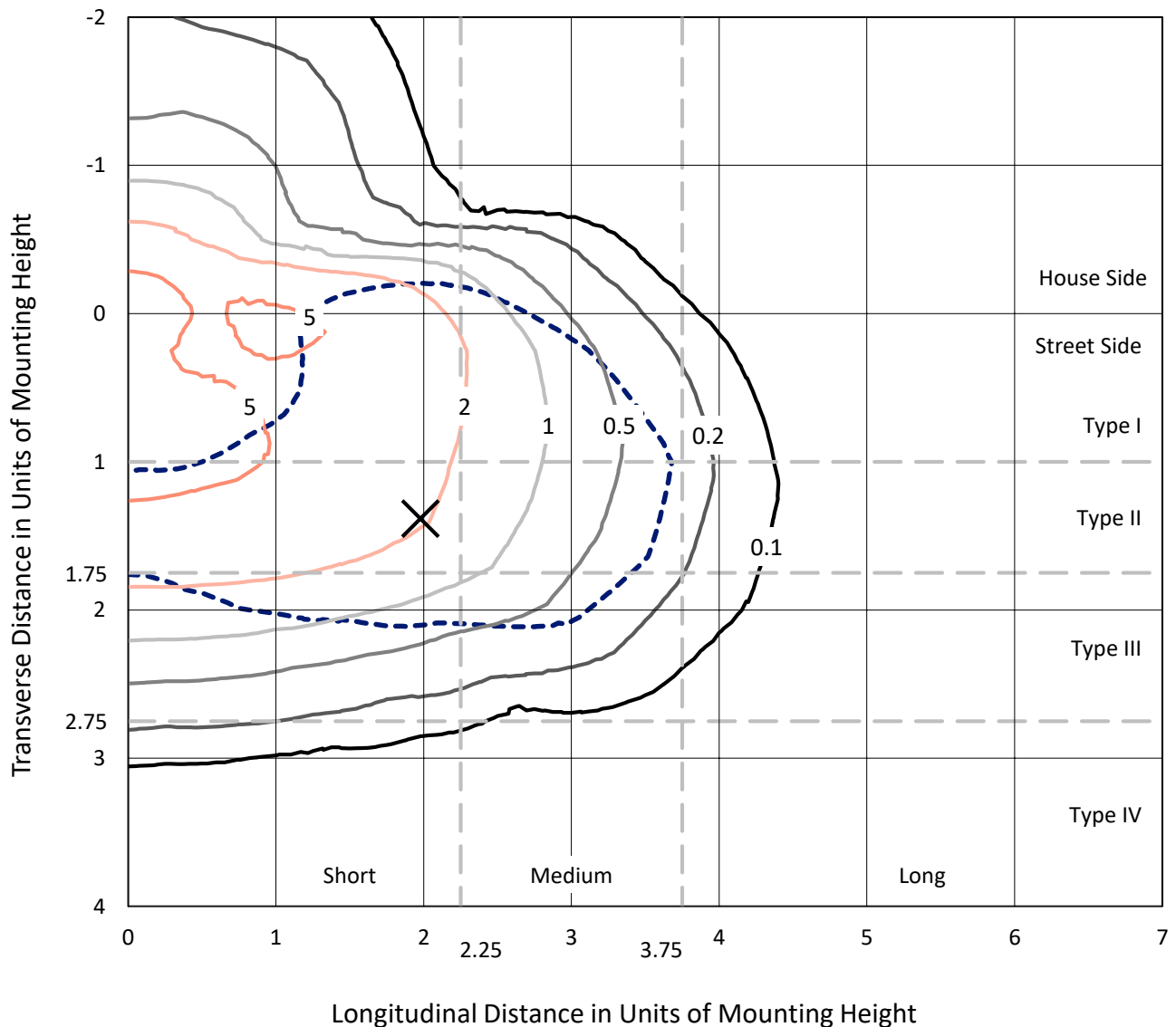
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

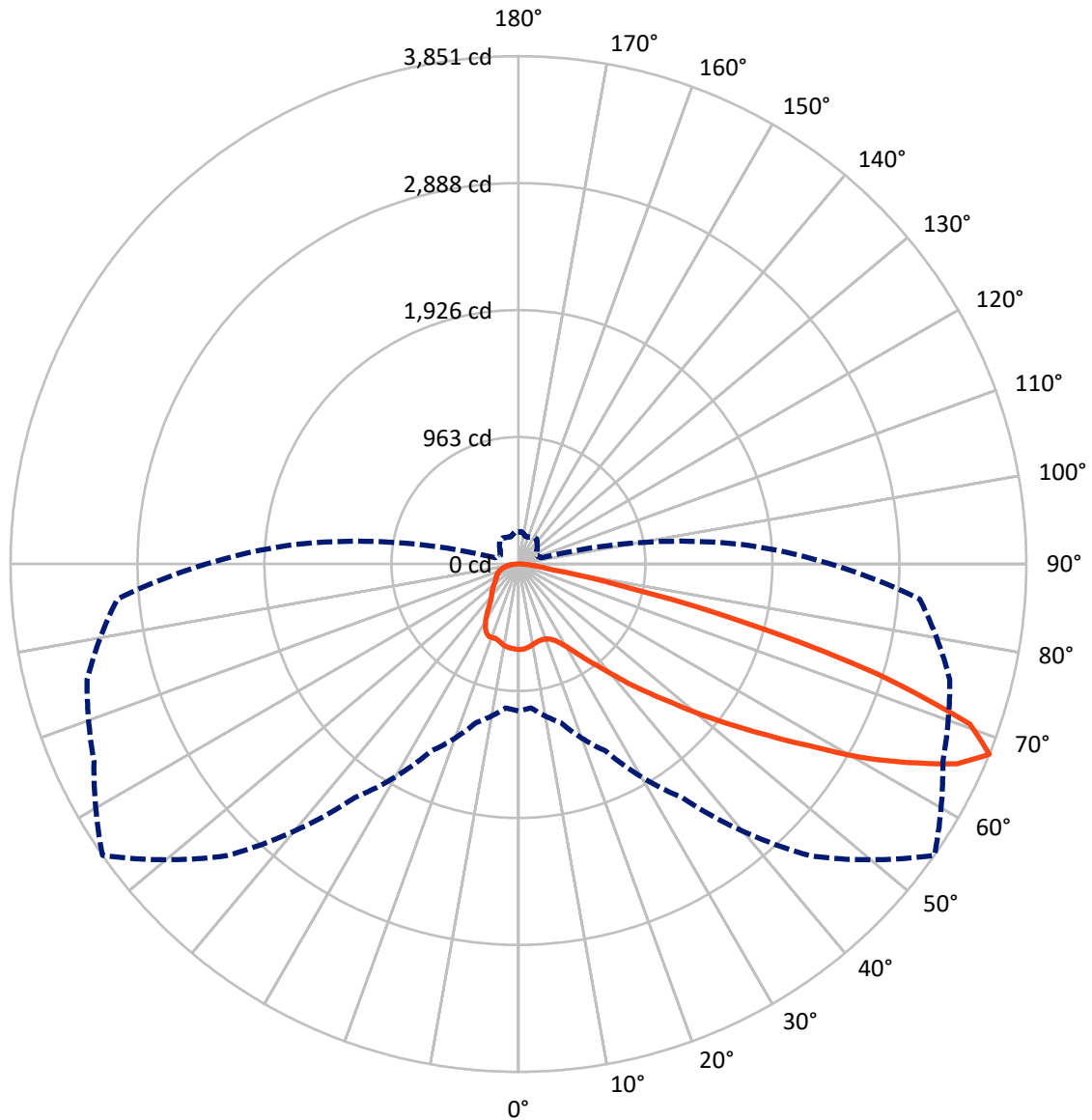
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 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	1135.4	0.0	1135.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	4120.5	0.0	4120.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	5255.9	0.0	5255.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	1.2
10°-20°	171.3	3.3
20°-30°	287.0	5.5
30°-40°	471.9	9.0
40°-50°	794.4	15.1
50°-60°	1250.4	23.8
60°-70°	1492.2	28.4
70°-80°	640.8	12.2
80°-90°	87.4	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°	5255.9	100.0
0°-180°	5255.9	100.0



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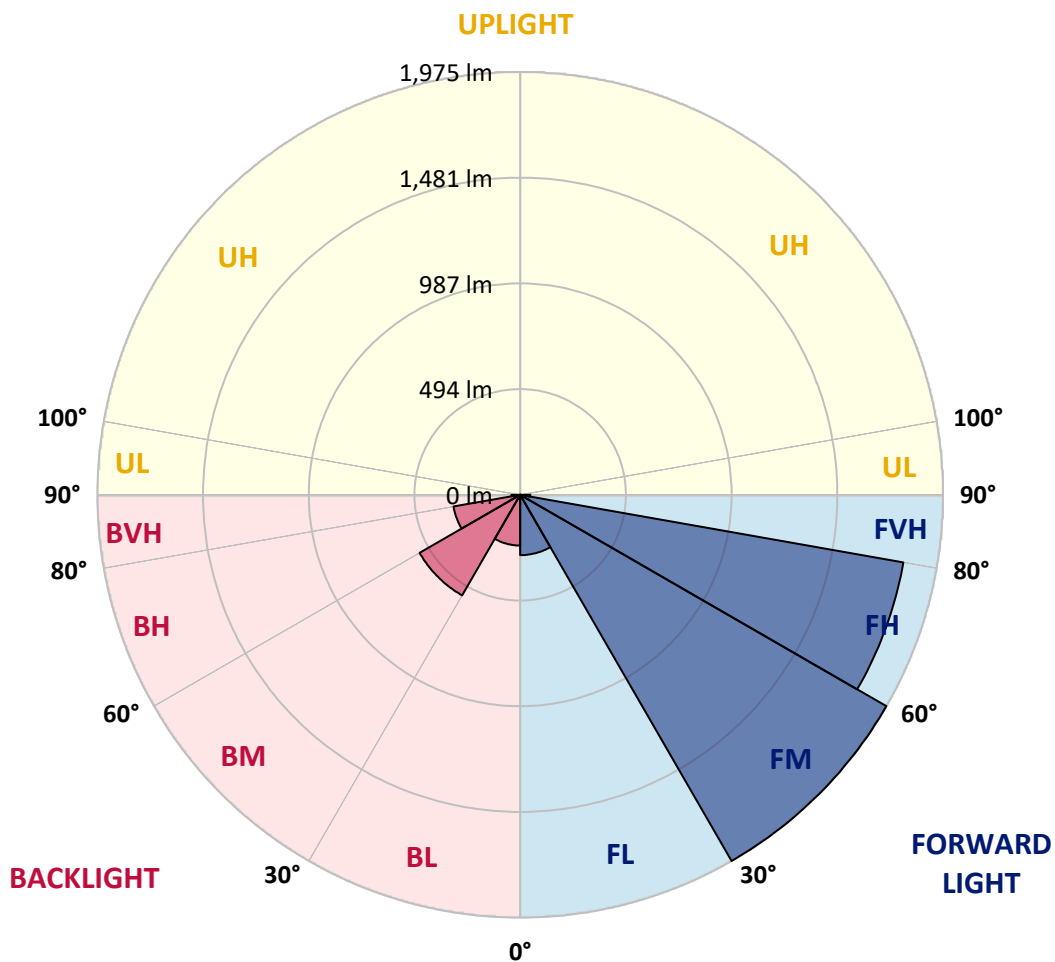
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	281.7	5.4			
FM	(30°-60°)	1974.5	37.6			
FH	(60°-80°)	1817.0	34.6			G2/5000
FVH	(80°-90°)	47.3	0.9			G1/100
BL	(0°-30°)	237.1	4.5	B1/500		
BM	(30°-60°)	542.2	10.3	B1/1000		
BH	(60°-80°)	316.0	6.0	B1/500		G1/500
BVH	(80°-90°)	40.1	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°	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
2.5°	642.5	642.8	643.3	645.3	647.1	646.6	646.8	645.8	645.6	644.0	645.6
5°	634.4	635.2	635.5	638.7	640.8	641.3	640.5	639.2	637.7	636.2	637.0
7.5°	615.9	617.9	618.2	622.8	626.0	630.3	630.5	630.9	630.1	629.1	630.5
10°	604.2	604.7	604.5	607.7	610.3	615.1	617.9	622.8	624.7	625.2	626.3
12.5°	603.4	602.9	602.2	602.2	601.4	603.4	608.6	615.4	620.2	621.7	623.0
15°	611.5	611.3	608.8	605.0	600.2	598.6	602.9	610.5	616.8	620.2	621.4
17.5°	629.8	628.3	624.2	615.6	605.2	601.2	601.7	608.0	615.4	619.7	620.9
20°	663.4	663.4	654.7	638.4	619.9	610.3	605.7	609.6	616.6	622.5	624.2
22.5°	721.2	721.7	707.3	680.6	649.4	628.8	617.4	616.6	625.0	631.6	633.6
25°	803.2	801.2	780.9	742.8	695.3	661.3	641.5	637.0	644.0	651.4	654.0
27.5°	898.7	891.3	867.2	821.2	759.8	710.0	679.5	672.2	679.0	687.4	690.0
30°	993.1	985.5	956.8	906.5	838.2	775.3	731.6	719.7	729.4	741.2	742.8
32.5°	1087.5	1087.5	1055.6	997.0	922.5	853.2	801.0	786.8	802.7	817.2	820.5
35°	1200.5	1201.0	1170.1	1099.5	1019.5	946.1	888.5	878.1	902.2	912.4	920.2
37.5°	1339.3	1342.2	1302.3	1217.0	1129.4	1052.3	983.7	969.6	993.6	1021.3	1046.7
40°	1489.4	1493.0	1449.0	1344.0	1256.4	1175.7	1101.5	1075.8	1115.9	1168.8	1201.6
42.5°	1632.6	1650.8	1608.5	1500.4	1406.1	1322.7	1247.5	1210.2	1260.5	1340.2	1368.6
45°	1839.5	1852.7	1778.8	1680.8	1592.2	1498.8	1399.3	1359.9	1430.3	1530.7	1536.7
47.5°	1977.4	1967.4	1929.9	1868.9	1812.9	1725.5	1575.8	1532.6	1626.0	1744.3	1711.5
50°	2050.7	2053.8	2048.7	2052.2	2054.3	1999.5	1792.0	1732.9	1844.3	1987.3	1911.8
52.5°	2119.2	2098.9	2115.7	2198.9	2299.5	2279.1	2027.4	1965.7	2078.3	2256.8	2123.5
55°	2117.7	2086.7	2141.3	2288.3	2506.4	2529.8	2291.6	2220.5	2325.9	2546.0	2348.0
57.5°	2042.8	2044.4	2128.4	2320.8	2650.6	2765.3	2598.3	2491.7	2588.4	2839.0	2552.9
60°	1939.7	1953.7	2074.9	2315.4	2766.1	2958.5	2974.5	2783.9	2845.5	3105.3	2722.4
62.5°	1773.5	1788.2	1955.3	2260.1	2748.6	3144.7	3314.7	3115.4	3114.4	3266.7	2772.2
65°	1511.2	1506.9	1682.3	2053.3	2601.6	3282.2	3652.5	3402.0	3317.0	3269.2	2672.2
67.5°	1114.5	1095.2	1245.7	1563.8	2162.4	3128.1	3851.3	3551.3	3386.1	3054.2	2366.5
70°	578.3	559.0	680.9	913.2	1422.1	2441.4	3631.3	3474.1	3233.4	2560.2	1854.0
72.5°	247.2	244.0	293.5	400.6	687.9	1408.2	2847.3	3007.0	2774.4	1907.5	1274.6
75°	166.2	165.3	183.8	218.3	309.4	571.4	1781.9	2134.5	2029.8	1182.7	716.9
77.5°	130.5	129.2	140.1	156.9	200.6	225.5	790.7	1145.9	1060.6	514.9	313.7
80°	102.1	101.1	107.9	117.0	144.2	142.2	260.2	455.9	352.9	197.2	152.5
82.5°	80.5	80.5	86.0	86.3	102.3	97.0	135.8	200.8	176.2	115.0	93.4
85°	73.7	73.7	79.5	64.4	66.8	61.2	84.3	119.1	111.7	47.3	40.6
87.5°	37.0	36.0	66.8	57.1	36.3	32.5	41.1	57.6	62.0	26.2	20.4
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°	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
2.5°	645.1	644.8	645.3	645.6	647.6	650.4	651.6	653.5	654.5	654.0
5°	637.4	637.9	640.0	641.5	645.1	649.7	652.1	654.2	656.0	655.2
7.5°	631.1	632.4	635.5	636.7	638.7	640.0	639.8	640.5	642.0	640.3
10°	627.6	629.1	631.4	629.6	624.7	617.9	611.5	608.2	609.3	608.0
12.5°	624.0	626.0	624.2	615.9	602.4	593.5	588.7	589.2	591.5	592.0
15°	622.0	622.8	615.1	599.3	585.6	584.4	587.0	586.5	586.7	586.7
17.5°	622.0	619.9	605.7	589.9	584.1	581.9	574.0	564.1	559.8	558.2
20°	625.2	619.9	602.6	592.3	579.6	560.1	539.2	520.9	512.8	510.6
22.5°	635.2	626.0	611.3	593.3	557.2	524.5	491.5	469.6	454.9	452.3
25°	655.2	645.1	628.3	579.8	521.7	475.0	437.4	413.1	398.3	396.3
27.5°	690.3	683.6	637.4	550.1	474.4	424.4	389.6	370.9	360.0	359.3
30°	743.1	739.8	632.9	506.2	416.3	375.4	358.7	347.8	339.6	339.4
32.5°	827.4	800.7	617.9	452.7	363.2	340.6	333.8	327.2	320.9	320.9
35°	935.7	850.0	589.4	395.3	331.0	321.4	312.7	302.4	294.0	293.5
37.5°	1063.2	880.4	538.5	349.0	315.8	308.4	295.7	280.3	265.6	263.0
40°	1191.8	889.6	466.6	320.6	306.2	295.5	280.0	261.8	247.6	246.7
42.5°	1309.9	872.1	390.5	301.1	296.6	282.3	266.1	249.8	238.7	238.3
45°	1408.9	826.5	326.4	282.5	286.3	270.4	255.9	242.6	234.1	232.3
47.5°	1502.1	762.3	281.5	263.0	276.2	263.7	251.5	239.2	230.8	229.4
50°	1610.2	693.0	250.0	244.0	267.3	261.5	255.1	242.2	228.2	226.7
52.5°	1741.3	633.1	225.5	227.2	260.4	264.5	264.2	250.8	226.5	224.4
55°	1887.4	566.6	206.9	213.5	257.7	270.2	266.6	258.9	228.0	224.9
57.5°	2031.4	489.0	194.0	203.1	253.6	269.6	255.6	244.7	231.5	227.2
60°	2139.3	384.6	184.0	194.0	244.7	261.3	243.7	229.2	230.8	227.5
62.5°	2146.5	297.3	172.2	186.1	231.3	252.9	235.8	222.4	234.1	231.0
65°	2020.2	224.6	160.7	176.7	216.8	247.6	228.2	218.6	240.9	237.6
67.5°	1700.9	180.8	151.1	167.0	202.3	236.3	221.4	215.0	247.0	241.2
70°	1228.0	154.1	141.7	155.4	189.3	223.6	215.2	208.7	230.5	221.4
72.5°	756.0	133.5	131.0	139.8	179.5	210.4	206.1	196.7	207.7	200.3
75°	377.5	115.8	119.1	124.7	165.5	195.5	190.9	181.5	183.0	181.5
77.5°	180.8	99.0	105.1	109.5	147.5	178.5	173.6	164.0	162.2	162.4
80°	114.5	82.8	88.6	91.7	131.8	158.7	153.9	144.2	164.5	152.5
82.5°	71.6	67.3	68.8	74.4	114.8	138.1	131.8	123.2	148.2	117.3
85°	39.6	47.0	49.0	53.8	88.4	115.5	109.1	98.2	88.1	86.5
87.5°	23.6	27.9	28.6	32.2	59.4	83.5	73.9	70.1	58.1	57.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)