

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: P200556

Luminaire Tested: **GWC-AF-02-LED-E1-5WQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-5WQ-8030-600
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7035 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 66
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

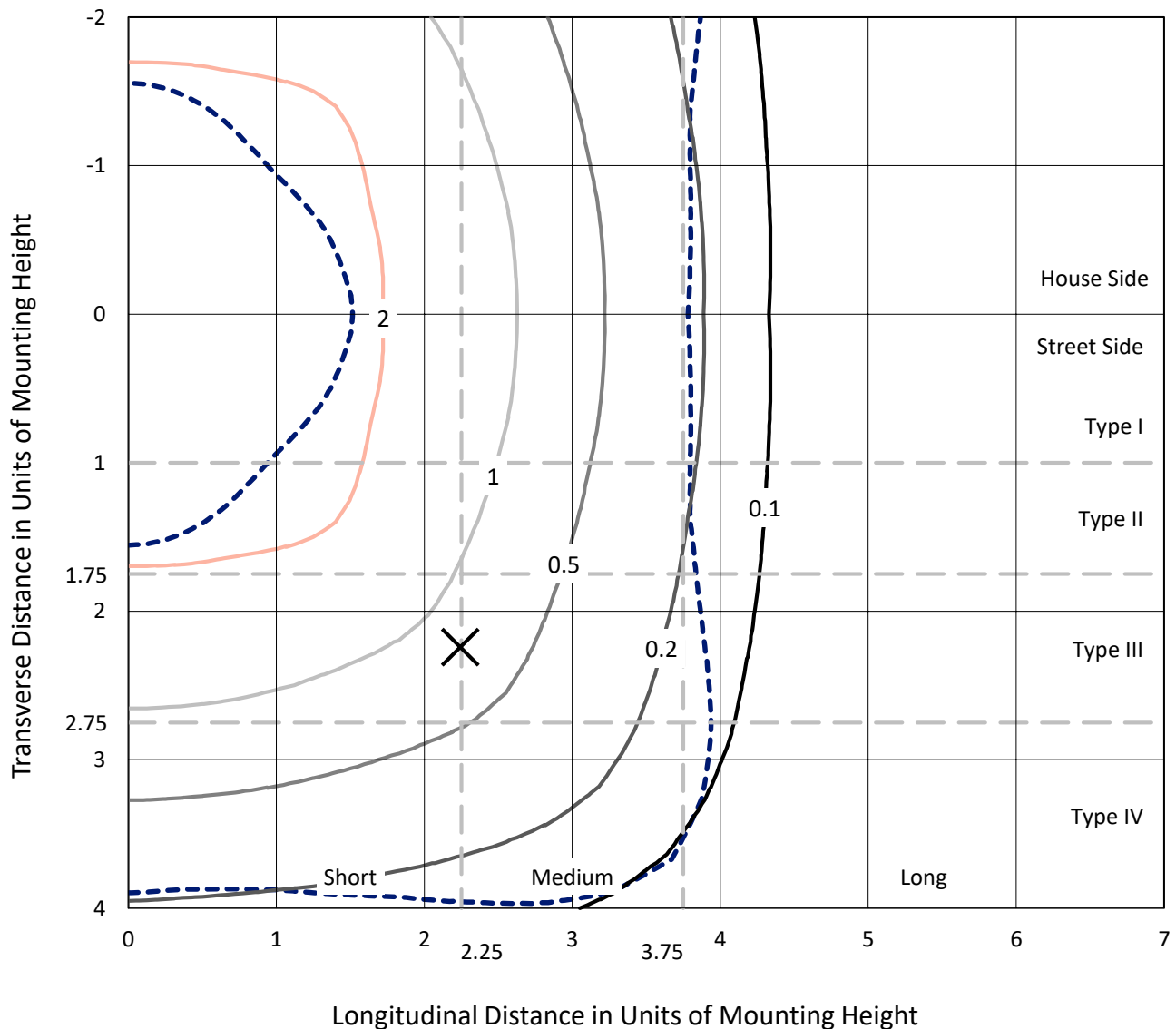


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

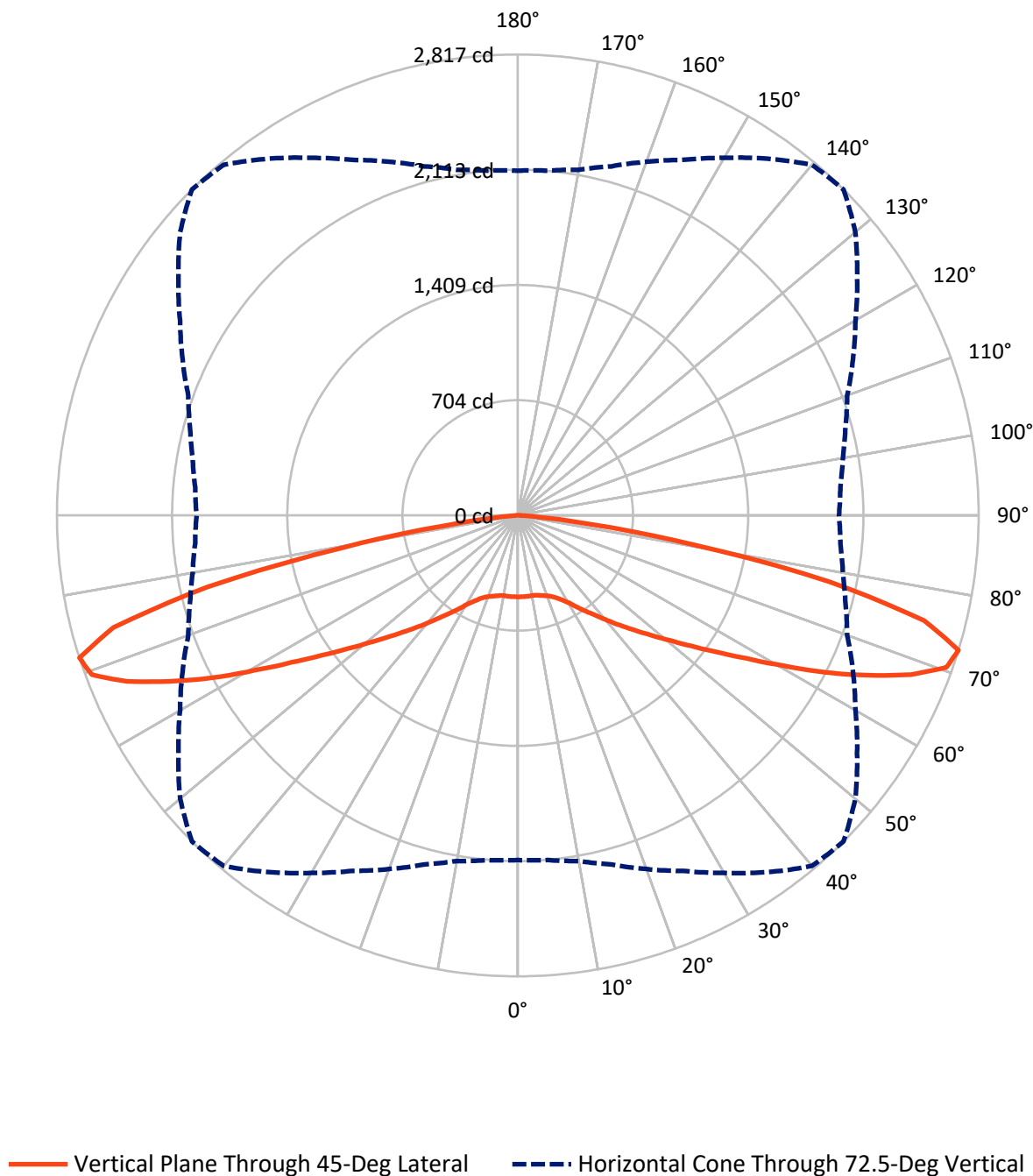


Based on 10 foot mounting height. Maximum calculated value = 5 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3517.5	0.0	3517.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3517.5	0.0	3517.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7035.0	0.0	7035.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	0.7
10°-20°	144.5	2.1
20°-30°	264.0	3.8
30°-40°	455.2	6.5
40°-50°	778.2	11.1
50°-60°	1261.3	17.9
60°-70°	2092.5	29.7
70°-80°	1843.0	26.2
80°-90°	148.6	2.1
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°	7035.0	100.0
0°-180°	7035.0	100.0

Coefficient of Utilization



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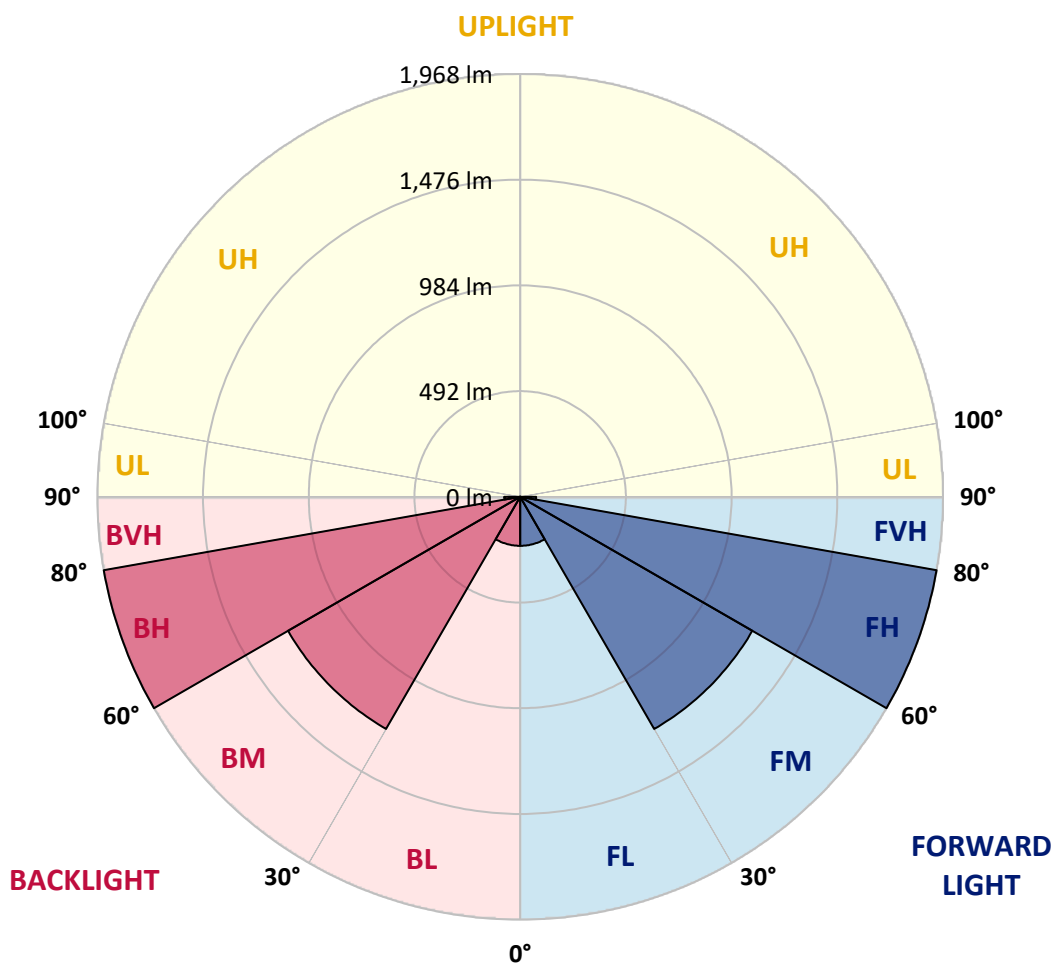
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	228.0	3.2			
FM	(30°-60°)	1247.4	17.7			
FH	(60°-80°)	1967.8	28.0			G2/5000
FVH	(80°-90°)	74.3	1.1			G1/100
BL	(0°-30°)	228.0	3.2	B1/500		
BM	(30°-60°)	1247.4	17.7	B2/2500		
BH	(60°-80°)	1967.8	28.0	B3/2500		G2/5000
BVH	(80°-90°)	74.3	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	498.2	498.2	498.2	498.2	498.2	498.2	498.2	498.2	498.2	498.2	498.2
2.5°	498.2	498.5	498.8	498.5	498.5	498.2	497.9	498.2	497.9	497.2	497.5
5°	499.8	500.4	500.4	499.8	500.1	499.8	499.2	499.5	498.8	497.9	497.9
7.5°	501.7	502.1	502.1	501.4	501.7	501.1	500.4	500.1	499.5	498.2	497.2
10°	504.6	505.0	504.6	504.0	504.0	503.0	501.4	500.8	499.5	497.5	496.6
12.5°	507.9	508.2	507.9	507.2	506.9	505.3	504.0	503.0	502.1	500.4	498.8
15°	512.4	513.0	512.4	511.1	510.1	508.8	508.2	508.5	508.8	507.5	505.9
17.5°	520.8	521.1	520.1	517.2	515.9	514.6	514.6	515.3	516.3	515.6	514.0
20°	536.3	535.3	533.0	529.5	527.9	525.6	525.3	525.6	525.6	525.3	524.0
22.5°	555.6	555.0	552.1	547.6	545.3	544.0	542.1	540.5	540.1	539.2	537.9
25°	578.9	578.5	575.0	571.1	569.5	567.9	566.3	564.0	562.1	559.8	558.5
27.5°	608.5	607.2	602.1	600.1	597.9	596.9	594.7	592.1	590.5	587.6	586.0
30°	641.1	641.1	636.9	636.3	636.3	634.0	631.4	626.9	624.0	621.1	620.2
32.5°	673.7	674.0	669.8	671.1	672.1	673.7	674.4	672.7	670.8	670.5	668.6
35°	720.8	719.5	715.3	716.3	716.0	715.7	715.7	719.2	719.9	720.5	716.6
37.5°	779.2	779.2	775.0	775.0	773.1	771.2	768.6	770.8	774.4	775.4	772.8
40°	846.0	848.3	843.1	842.8	843.4	837.3	834.4	837.9	840.2	844.1	841.2
42.5°	924.7	923.1	918.0	917.3	913.8	911.8	909.3	912.2	915.7	918.3	919.3
45°	1000.2	999.0	993.1	993.1	989.6	988.0	989.3	994.1	995.7	999.3	1002.8
47.5°	1074.8	1073.2	1069.3	1070.9	1071.2	1074.1	1078.3	1082.8	1087.4	1092.2	1093.8
50°	1150.9	1151.3	1147.1	1150.9	1155.8	1163.8	1175.1	1182.5	1191.9	1198.0	1200.0
52.5°	1220.3	1221.6	1226.1	1235.1	1244.8	1260.6	1280.0	1298.1	1313.5	1323.9	1323.2
55°	1303.5	1305.5	1316.5	1331.9	1347.8	1371.6	1400.3	1432.3	1458.1	1472.9	1463.6
57.5°	1410.0	1414.2	1426.5	1447.5	1471.0	1502.0	1541.3	1589.4	1629.4	1649.4	1634.3
60°	1556.2	1558.8	1573.6	1596.8	1625.2	1663.6	1716.2	1780.8	1837.2	1863.7	1846.3
62.5°	1748.8	1753.7	1765.6	1789.2	1818.2	1861.7	1926.0	2006.6	2077.0	2113.7	2074.4
65°	1978.9	1994.4	2004.4	2028.2	2055.3	2101.5	2168.6	2255.1	2330.6	2354.8	2309.3
67.5°	2206.7	2220.2	2237.6	2265.1	2292.5	2344.4	2406.7	2490.6	2573.5	2595.5	2524.8
70°	2306.4	2314.1	2341.2	2378.7	2431.2	2492.5	2564.5	2658.7	2761.3	2779.4	2689.7
72.5°	2106.6	2114.4	2144.7	2208.3	2299.9	2397.4	2522.9	2661.3	2796.8	2817.1	2693.6
75°	1593.3	1580.7	1625.6	1709.8	1833.4	1969.2	2144.7	2343.2	2539.0	2564.5	2417.0
77.5°	823.4	821.8	855.7	960.2	1107.7	1262.2	1455.5	1679.8	1871.4	1948.9	1828.8
80°	232.0	234.6	250.7	302.7	388.8	500.4	651.5	861.5	1018.3	1098.3	1031.2
82.5°	91.0	98.1	104.2	113.9	125.2	141.6	189.1	281.4	377.5	451.1	369.4
85°	32.6	34.8	49.4	58.4	59.4	62.6	71.3	83.2	100.3	119.7	98.4
87.5°	12.3	13.6	15.8	26.1	25.8	23.6	28.7	30.0	22.6	20.7	25.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	498.2	498.2	498.2	498.2	498.2	498.2	498.2	498.2
2.5°	496.9	497.2	497.2	497.5	497.9	497.9	498.5	498.5
5°	497.2	497.2	496.6	496.9	496.6	496.6	496.9	496.9
7.5°	496.6	496.3	495.6	495.3	494.6	494.6	494.6	494.6
10°	495.6	495.3	494.6	494.3	494.0	494.0	494.0	494.0
12.5°	498.2	497.2	496.6	496.3	496.3	496.3	496.3	496.3
15°	505.0	502.7	501.1	501.1	501.4	502.1	502.1	502.7
17.5°	513.4	510.8	509.2	507.9	508.5	509.5	510.1	510.8
20°	523.4	522.1	519.8	518.5	518.5	519.8	520.5	520.8
22.5°	537.2	536.3	535.3	533.7	533.7	534.3	535.6	535.6
25°	557.9	557.2	556.6	555.3	555.0	555.0	555.6	556.3
27.5°	583.7	584.0	583.4	583.0	582.1	581.8	582.7	582.4
30°	618.2	619.8	621.4	620.2	618.5	617.6	616.6	615.3
32.5°	665.0	663.1	661.8	659.5	656.6	654.0	652.1	649.8
35°	709.2	706.0	704.7	706.6	706.3	704.7	702.4	700.5
37.5°	763.4	762.8	763.4	767.0	766.3	767.9	763.4	763.1
40°	831.8	832.5	837.0	841.2	843.4	845.7	843.1	840.5
42.5°	911.2	910.9	912.5	918.3	922.2	924.7	919.3	918.6
45°	995.1	992.8	994.1	999.0	1002.8	1005.7	999.6	999.6
47.5°	1087.4	1083.5	1079.3	1084.8	1087.0	1089.0	1084.1	1082.5
50°	1190.3	1182.2	1173.2	1175.5	1175.5	1174.8	1168.7	1168.4
52.5°	1308.4	1293.5	1277.1	1271.0	1267.4	1263.5	1252.9	1247.7
55°	1444.2	1422.0	1396.2	1380.3	1372.0	1361.3	1343.6	1338.7
57.5°	1603.0	1568.1	1523.6	1504.2	1485.5	1468.1	1448.4	1442.9
60°	1791.1	1739.8	1680.7	1644.9	1624.6	1607.8	1587.5	1586.5
62.5°	2000.8	1919.8	1853.0	1820.8	1805.9	1791.1	1771.7	1774.3
65°	2214.1	2129.6	2067.0	2040.8	2027.0	2014.7	1995.3	1998.2
67.5°	2424.5	2346.7	2278.0	2251.2	2235.7	2220.2	2202.8	2205.7
70°	2575.5	2479.0	2401.6	2342.2	2305.1	2263.1	2236.0	2229.3
72.5°	2532.2	2383.5	2260.6	2142.8	2073.7	2017.6	1979.5	1963.1
75°	2191.5	1988.2	1830.1	1685.6	1604.3	1538.1	1490.0	1460.0
77.5°	1627.5	1399.1	1212.2	1045.7	914.1	825.7	763.4	723.1
80°	890.9	677.6	495.3	348.2	255.9	212.6	187.8	175.8
82.5°	277.5	179.1	132.0	113.9	105.8	101.3	93.9	82.0
85°	88.4	77.4	72.0	68.7	65.5	57.1	39.4	35.8
87.5°	34.2	35.2	34.8	32.9	33.6	24.2	19.4	17.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)