

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: P200550

Luminaire Tested: **GWC-AF-02-LED-E1-5NQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-E1-5NQ-8030-800
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8448 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 86
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

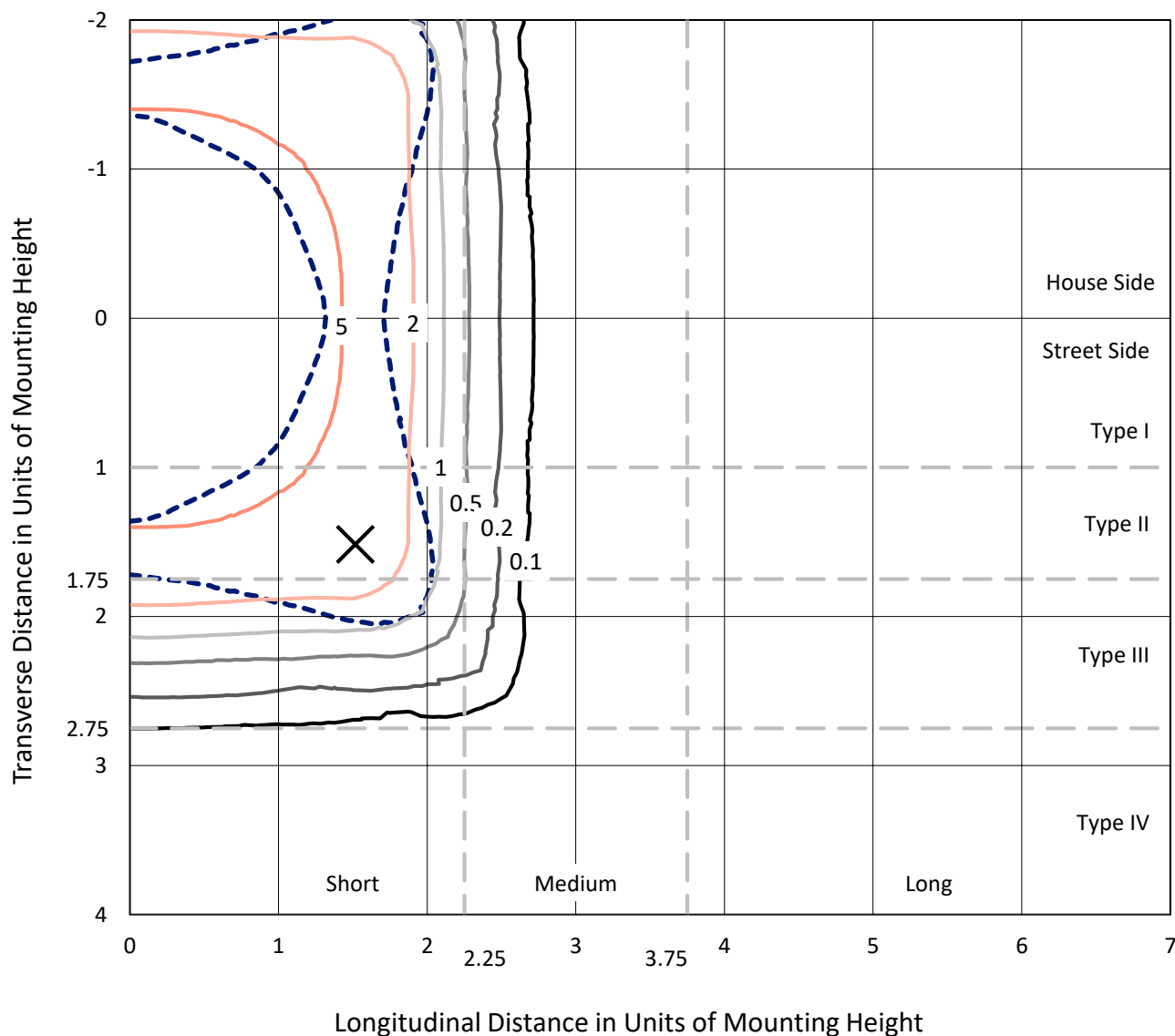


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

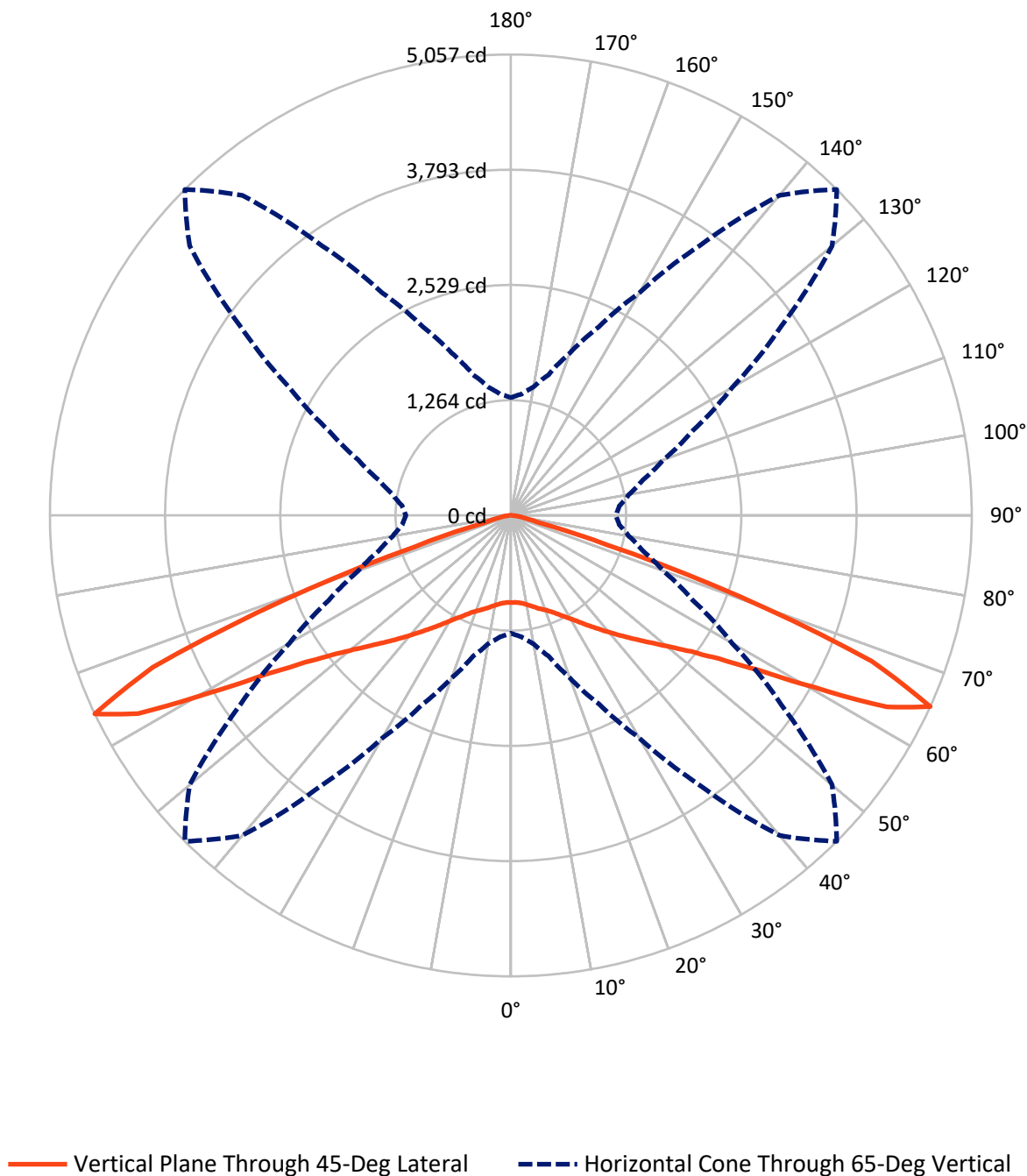


Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4224.0	0.0	4224.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4224.0	0.0	4224.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8448.0	0.0	8448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	1.1
10°-20°	298.8	3.5
20°-30°	558.7	6.6
30°-40°	945.0	11.2
40°-50°	1545.1	18.3
50°-60°	2456.9	29.1
60°-70°	2220.9	26.3
70°-80°	281.1	3.3
80°-90°	48.3	0.6
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°	8448.0	100.0
0°-180°	8448.0	100.0

Coefficient of Utilization



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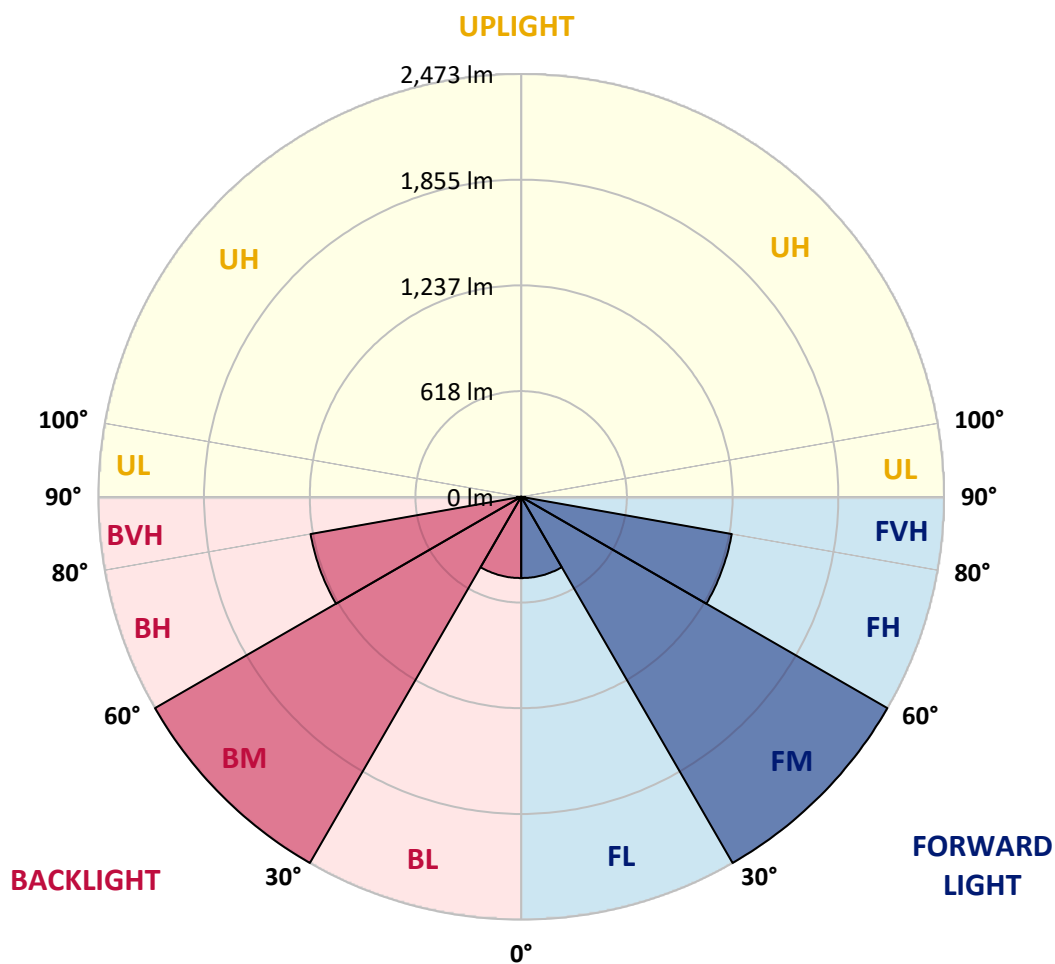
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	475.3	5.6			
FM	(30°-60°)	2473.5	29.3			
FH	(60°-80°)	1251.0	14.8			G1/1800
FVH	(80°-90°)	24.2	0.3			G1/100
BL	(0°-30°)	475.3	5.6	B1/500		
BM	(30°-60°)	2473.5	29.3	B2/2500		
BH	(60°-80°)	1251.0	14.8	B3/2500		G1/1800
BVH	(80°-90°)	24.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	955.9	955.9	955.9	955.9	955.9	955.9	955.9	955.9	955.9	955.9	955.9
2.5°	956.7	957.5	958.3	957.5	958.3	957.1	956.3	957.5	956.3	955.1	955.9
5°	965.0	965.4	965.4	964.2	965.4	964.6	963.4	965.0	963.8	962.6	963.4
7.5°	978.8	980.4	979.2	978.1	978.8	978.1	977.3	977.7	977.3	976.1	976.5
10°	997.4	998.6	997.8	997.4	998.2	997.8	997.0	996.6	997.0	995.9	995.9
12.5°	1020.0	1019.6	1019.2	1019.6	1020.8	1020.8	1020.4	1020.8	1021.6	1022.0	1021.2
15°	1042.1	1042.9	1042.9	1042.9	1045.3	1047.3	1048.5	1049.3	1050.9	1051.2	1049.7
17.5°	1069.8	1069.8	1069.4	1069.8	1072.2	1075.4	1076.6	1078.2	1079.7	1080.9	1078.9
20°	1100.7	1101.5	1101.5	1102.3	1105.5	1109.0	1109.0	1109.8	1109.0	1109.8	1108.6
22.5°	1138.3	1140.7	1140.7	1141.1	1144.2	1148.6	1147.4	1148.6	1146.6	1148.2	1146.6
25°	1187.4	1190.9	1190.1	1190.1	1192.5	1195.3	1195.7	1198.0	1197.6	1199.6	1198.4
27.5°	1242.7	1248.3	1249.9	1249.5	1251.1	1253.8	1254.6	1257.4	1255.8	1257.4	1256.6
30°	1309.2	1311.6	1314.8	1315.9	1317.9	1320.7	1320.7	1321.1	1319.1	1321.5	1322.7
32.5°	1378.1	1382.4	1385.6	1392.7	1396.3	1398.2	1397.8	1398.6	1396.7	1399.8	1402.2
35°	1469.1	1472.2	1477.4	1482.9	1487.7	1487.3	1486.1	1486.5	1486.5	1489.2	1491.6
37.5°	1578.7	1579.4	1586.2	1594.1	1596.5	1594.1	1587.0	1585.4	1581.8	1585.4	1589.3
40°	1694.6	1697.3	1710.8	1715.9	1717.1	1712.8	1702.5	1696.6	1688.6	1693.0	1698.5
42.5°	1816.0	1821.6	1833.8	1842.9	1846.9	1844.1	1829.9	1820.8	1810.5	1812.9	1818.4
45°	1950.6	1957.3	1974.7	1983.4	1990.9	1986.6	1972.7	1958.9	1942.7	1943.8	1952.5
47.5°	2100.9	2107.6	2130.2	2144.8	2148.8	2148.0	2132.6	2113.6	2091.4	2090.6	2098.1
50°	2269.5	2276.2	2304.3	2326.8	2338.3	2337.1	2318.9	2292.0	2265.1	2265.5	2275.0
52.5°	2434.1	2442.4	2471.6	2510.4	2533.0	2549.2	2538.1	2512.8	2479.9	2480.7	2489.4
55°	2588.4	2602.2	2635.8	2688.5	2730.4	2775.9	2789.0	2788.2	2768.4	2773.9	2782.6
57.5°	2663.1	2683.7	2735.5	2818.6	2904.1	2996.7	3075.0	3133.6	3158.5	3196.1	3187.4
60°	2521.5	2554.3	2630.7	2752.9	2921.9	3115.0	3321.9	3524.1	3696.6	3826.7	3752.0
62.5°	2064.5	2107.2	2199.8	2356.5	2612.1	2921.1	3317.1	3795.1	4315.8	4629.9	4405.6
65°	1291.8	1336.1	1430.3	1598.0	1897.2	2281.3	2818.6	3610.7	4583.6	5057.2	4600.6
67.5°	503.7	527.8	578.8	686.1	910.8	1252.6	1791.9	2690.8	3854.4	4269.5	3782.8
70°	252.4	254.8	264.3	284.1	332.3	431.7	656.8	1247.5	2210.5	2669.9	2131.0
72.5°	182.4	182.8	187.5	196.2	211.7	233.8	276.6	381.8	718.9	1098.7	673.8
75°	139.7	141.2	144.0	148.8	157.1	168.2	183.6	220.0	272.6	316.1	265.9
77.5°	107.6	110.8	112.8	117.1	122.3	129.8	134.1	148.0	172.1	181.2	178.4
80°	81.9	84.7	89.0	92.6	96.1	99.7	98.1	104.5	117.1	124.6	120.7
82.5°	52.2	55.4	68.1	71.2	72.8	75.2	72.4	72.8	78.3	83.1	78.3
85°	33.6	35.6	43.1	47.1	47.5	49.1	47.9	45.1	45.1	41.1	46.3
87.5°	15.4	15.8	19.4	22.9	23.7	21.4	21.0	20.2	16.2	15.4	16.6
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°	955.9	955.9	955.9	955.9	955.9	955.9	955.9	955.9
2.5°	955.5	956.3	956.7	957.9	958.3	958.3	958.7	959.5
5°	963.0	964.2	964.6	966.2	966.6	966.2	967.0	967.4
7.5°	976.5	978.4	979.2	980.8	979.6	981.2	981.6	981.6
10°	996.3	998.2	998.6	1000.2	999.4	1000.2	1000.2	999.4
12.5°	1022.4	1022.8	1021.6	1022.8	1021.2	1022.0	1020.8	1020.0
15°	1051.2	1050.1	1047.3	1047.3	1044.9	1045.3	1044.9	1044.5
17.5°	1079.3	1077.0	1075.0	1074.2	1072.2	1071.8	1070.6	1070.6
20°	1110.2	1109.0	1107.8	1106.2	1104.3	1102.3	1101.9	1102.7
22.5°	1147.4	1147.0	1147.0	1146.2	1143.4	1141.5	1140.3	1140.3
25°	1197.2	1193.7	1193.7	1193.3	1192.1	1190.9	1188.5	1189.7
27.5°	1253.4	1251.4	1253.0	1252.6	1251.4	1251.4	1249.9	1249.9
30°	1322.7	1321.9	1324.2	1322.3	1318.3	1317.9	1316.3	1314.4
32.5°	1402.6	1401.8	1405.4	1403.0	1396.7	1393.1	1389.9	1388.3
35°	1491.6	1492.0	1496.4	1494.8	1487.7	1485.3	1479.7	1478.9
37.5°	1588.9	1595.3	1602.8	1604.4	1598.4	1596.9	1590.9	1587.8
40°	1703.3	1711.6	1723.1	1725.8	1719.5	1718.3	1710.0	1705.7
42.5°	1825.1	1839.4	1853.6	1856.0	1849.7	1843.3	1835.4	1832.3
45°	1961.2	1978.3	1996.9	2001.6	1992.1	1984.6	1974.3	1974.3
47.5°	2114.0	2135.3	2156.3	2169.4	2160.7	2152.7	2140.5	2132.6
50°	2294.4	2323.7	2351.0	2364.4	2350.6	2335.5	2314.2	2307.0
52.5°	2520.7	2552.4	2576.1	2569.0	2547.6	2526.6	2503.3	2493.8
55°	2809.5	2820.2	2820.2	2793.3	2750.6	2715.4	2678.6	2666.3
57.5°	3170.8	3129.6	3066.3	2986.0	2885.1	2797.3	2737.9	2709.8
60°	3595.3	3397.5	3173.9	2954.3	2773.9	2625.2	2536.9	2496.6
62.5°	3878.2	3360.7	2912.8	2560.3	2300.7	2121.5	1999.6	1952.1
65°	3624.6	2802.8	2203.0	1781.2	1498.3	1315.9	1195.3	1151.0
67.5°	2654.8	1756.3	1173.1	840.8	616.0	491.4	441.9	421.4
70°	1191.7	618.4	379.0	295.9	255.2	234.2	225.1	222.0
72.5°	359.3	259.9	219.2	197.8	181.6	171.3	163.8	163.0
75°	216.8	180.4	160.2	147.6	137.3	129.0	125.0	123.8
77.5°	151.5	132.5	123.0	113.9	106.0	99.7	96.1	93.4
80°	106.4	97.3	93.0	87.8	82.7	76.8	71.6	69.2
82.5°	71.2	69.2	69.2	66.1	61.7	56.2	45.9	43.5
85°	45.9	45.5	46.3	45.1	41.9	36.0	29.7	28.1
87.5°	21.4	21.8	24.1	23.7	22.9	19.0	15.0	14.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)