

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: P200366

Luminaire Tested: **GWC-AF-02-LED-E1-T4FT-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7050-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10097 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

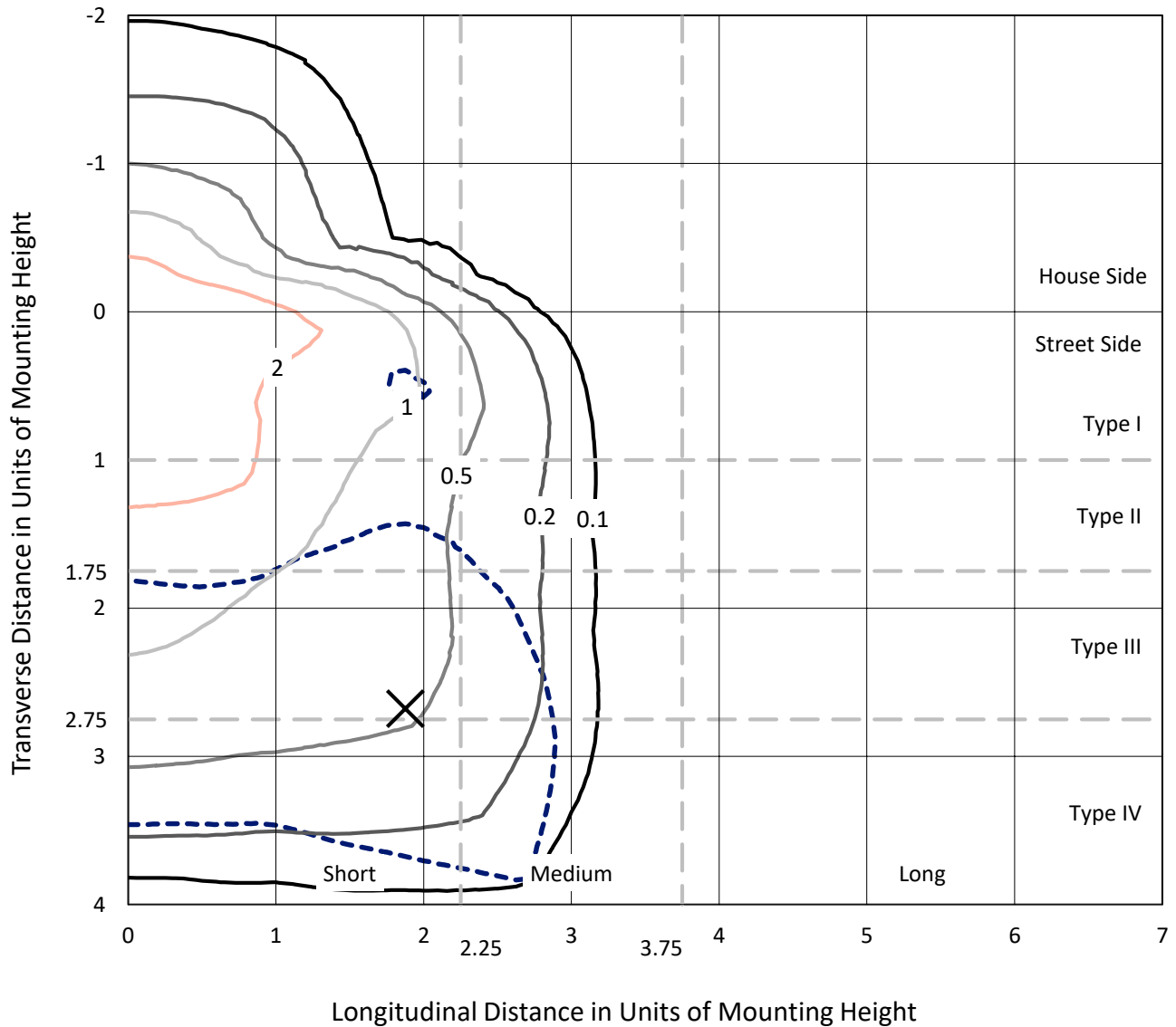
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

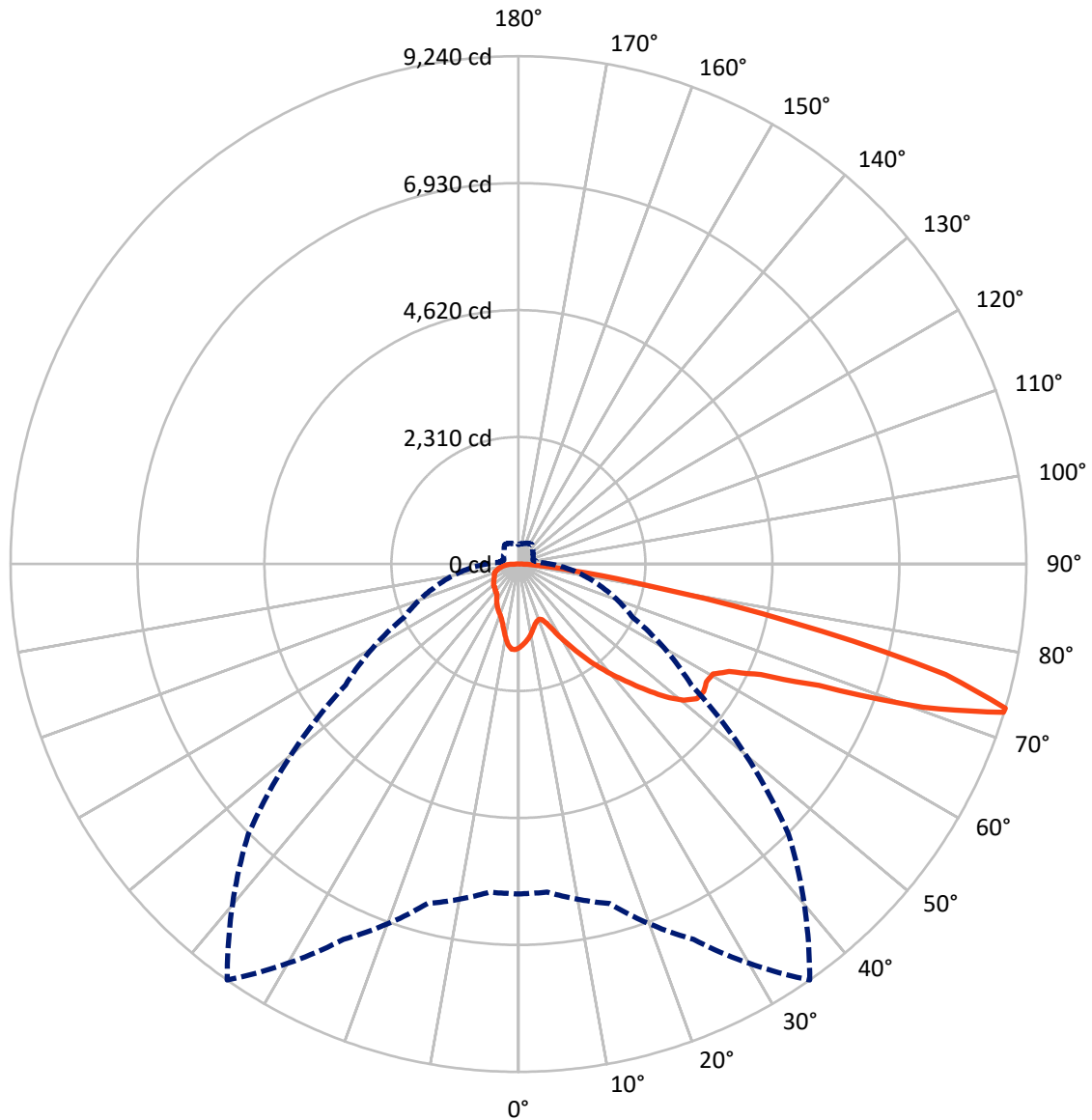
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1925.8	0.0	1925.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	8171.2	0.0	8171.2
	% Fixture	80.9	0.0	80.9
Total	Lumens	10097.0	0.0	10097.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.0	1.4
10°-20°	344.3	3.4
20°-30°	556.7	5.5
30°-40°	933.4	9.2
40°-50°	1438.9	14.3
50°-60°	1930.4	19.1
60°-70°	2571.7	25.5
70°-80°	1961.4	19.4
80°-90°	222.3	2.2
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°	10097.0	100.0
0°-180°	10097.0	100.0



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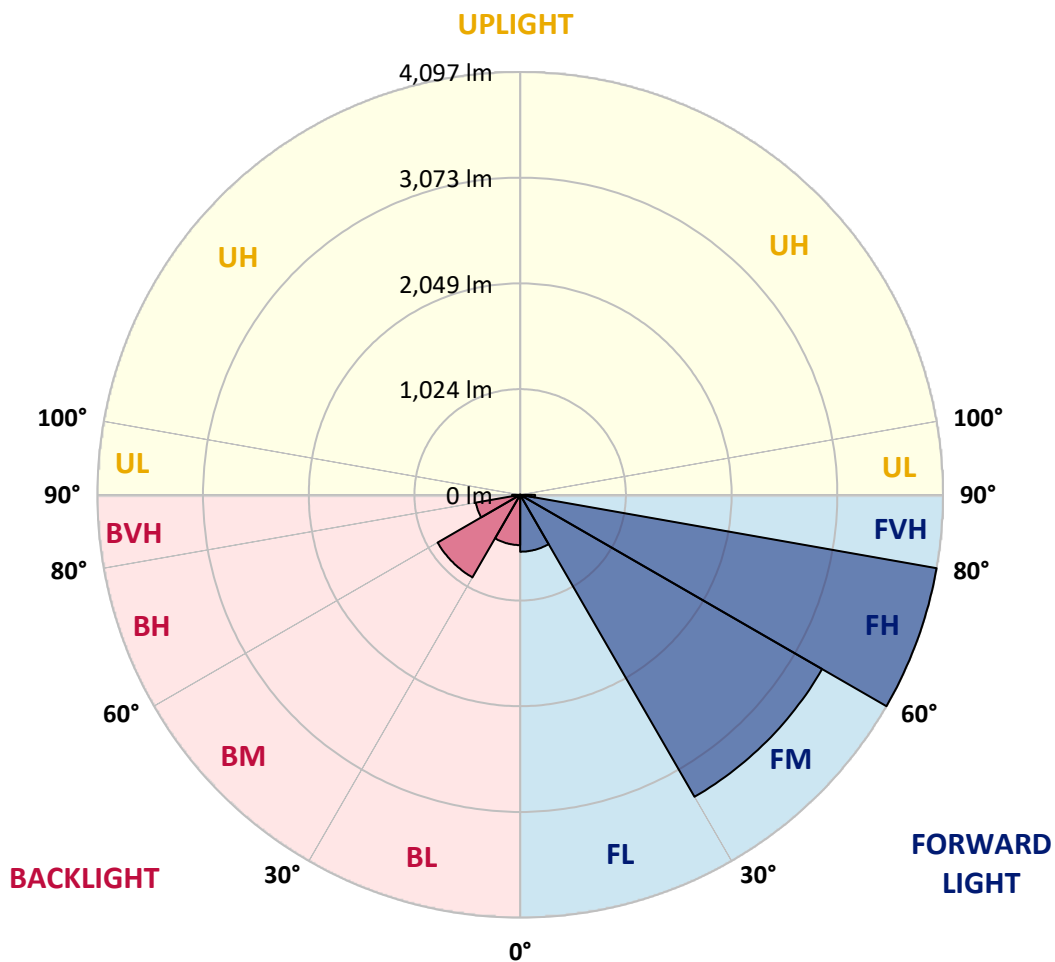
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	551.6	5.5			
FM	(30°-60°)	3378.5	33.5			
FH	(60°-80°)	4097.4	40.6			G2/5000
FVH	(80°-90°)	143.7	1.4			G2/225
BL	(0°-30°)	487.3	4.8	B1/500		
BM	(30°-60°)	924.2	9.2	B1/1000		
BH	(60°-80°)	435.7	4.3	B1/500		G1/500
BVH	(80°-90°)	78.6	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1524.0	1524.0	1524.0	1524.0	1524.0	1524.0	1524.0	1524.0	1524.0	1524.0	1524.0
2.5°	1463.8	1466.7	1463.3	1467.7	1475.0	1482.7	1488.1	1495.8	1504.6	1516.7	1519.6
5°	1395.0	1399.3	1399.3	1407.1	1421.2	1433.8	1445.4	1458.0	1476.4	1497.3	1505.5
7.5°	1319.3	1321.8	1326.1	1337.8	1358.1	1376.1	1392.6	1412.9	1438.1	1465.8	1480.3
10°	1228.2	1231.6	1238.4	1254.8	1282.5	1307.2	1331.0	1359.1	1391.1	1425.5	1443.9
12.5°	1163.7	1162.7	1165.6	1177.8	1202.0	1232.1	1266.5	1302.4	1341.6	1381.9	1404.2
15°	1141.9	1136.5	1125.4	1122.5	1135.6	1165.6	1205.4	1249.5	1296.5	1345.0	1372.7
17.5°	1155.4	1146.2	1115.7	1093.4	1091.4	1114.2	1156.4	1205.9	1260.2	1319.3	1353.8
20°	1240.8	1219.0	1143.8	1091.9	1074.0	1085.1	1122.0	1174.4	1238.4	1316.9	1361.0
22.5°	1444.9	1412.9	1253.4	1156.9	1096.3	1082.7	1110.4	1166.1	1240.8	1347.0	1403.2
25°	1742.1	1696.6	1441.5	1318.9	1193.8	1121.5	1127.8	1185.0	1275.2	1416.8	1484.7
27.5°	1976.8	1947.2	1687.4	1547.2	1371.2	1226.2	1184.5	1232.5	1345.5	1531.2	1600.6
30°	2116.5	2098.5	1950.2	1806.1	1597.7	1393.0	1293.2	1321.8	1455.6	1689.8	1747.0
32.5°	2278.4	2267.7	2195.0	2062.6	1842.0	1612.2	1465.3	1455.1	1603.0	1880.3	1906.5
35°	2446.2	2442.8	2400.1	2305.1	2104.3	1901.2	1693.7	1624.8	1763.5	2078.2	2061.7
37.5°	2602.3	2596.5	2571.8	2516.5	2378.8	2211.5	1926.4	1798.9	1936.6	2267.3	2194.0
40°	2889.8	2844.3	2759.4	2717.7	2656.1	2472.8	2111.1	1961.3	2116.0	2447.6	2308.5
42.5°	3240.4	3166.2	3008.1	2950.9	2942.2	2678.9	2237.2	2118.9	2296.8	2626.5	2421.0
45°	3516.3	3446.5	3310.2	3238.0	3270.0	2865.6	2363.7	2287.1	2483.0	2814.2	2536.8
47.5°	3810.6	3701.0	3520.7	3542.5	3612.3	3042.1	2492.7	2468.0	2687.2	3024.1	2680.9
50°	3821.3	3737.4	3658.4	3788.8	3897.4	3204.5	2654.2	2657.6	2936.9	3288.4	2872.4
52.5°	3599.7	3581.7	3707.3	3912.4	4069.0	3333.0	2838.0	2853.5	3256.4	3591.9	3082.8
55°	3522.1	3501.7	3646.7	3869.3	4092.3	3439.2	3037.2	3065.4	3642.8	3911.9	3287.9
57.5°	3711.2	3666.1	3675.8	3848.9	4035.6	3555.6	3254.5	3311.2	4062.7	4191.7	3419.8
60°	4239.7	4143.2	3959.9	3955.6	4066.1	3730.1	3505.6	3575.0	4499.1	4325.5	3368.4
62.5°	4981.1	4884.6	4541.3	4317.8	4301.3	4018.1	3814.0	3832.4	4751.3	4144.2	3054.7
65°	5783.5	5697.2	5313.7	4998.1	4845.8	4495.2	4172.3	3947.3	4668.8	3645.3	2505.8
67.5°	6757.7	6665.0	6335.3	6043.9	5897.5	5265.2	4424.0	3837.3	4145.7	2823.9	1801.3
70°	7438.9	7344.3	7214.4	7450.5	7808.9	6376.1	4456.5	3389.7	3096.4	1876.9	1084.2
72.5°	6550.1	6506.0	6743.1	7737.6	9230.0	7050.0	4028.3	2468.0	1798.4	996.4	627.4
73°	6001.3	5991.6	6395.9	7536.4	9240.2	6946.3	3840.7	2293.9	1542.4	881.5	573.6
75°	2709.9	2788.0	3674.4	5756.4	8028.0	5723.9	2703.2	1315.9	871.3	609.0	433.0
77.5°	651.2	678.3	1149.6	2733.7	5069.8	3411.1	1224.8	650.7	557.1	430.1	316.1
80°	277.3	286.6	442.7	1010.0	2387.0	1373.6	564.4	435.9	385.5	300.1	221.6
82.5°	154.2	163.9	251.2	458.2	963.4	468.4	344.3	303.5	253.6	180.9	144.0
85°	87.3	92.6	146.9	256.0	408.3	188.1	206.1	201.7	143.0	93.1	70.8
87.5°	41.2	44.6	70.8	118.8	160.0	73.7	104.7	115.4	89.7	56.7	36.9
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°	1524.0	1524.0	1524.0	1524.0	1524.0	1524.0	1524.0	1524.0	1524.0	1524.0
2.5°	1523.0	1531.7	1541.9	1547.2	1552.1	1557.9	1563.7	1563.7	1564.7	1565.2
5°	1512.3	1530.3	1546.3	1553.0	1554.5	1554.5	1553.0	1545.3	1538.5	1541.4
7.5°	1490.0	1516.2	1529.8	1527.3	1508.9	1487.6	1469.6	1447.8	1436.7	1434.7
10°	1458.0	1488.1	1490.5	1466.3	1420.7	1375.1	1337.3	1300.4	1283.0	1278.6
12.5°	1422.6	1450.3	1434.7	1384.8	1311.6	1245.1	1197.1	1159.8	1143.3	1139.0
15°	1394.0	1412.9	1373.6	1295.1	1203.0	1132.7	1092.9	1065.3	1053.6	1050.2
17.5°	1379.0	1382.9	1311.1	1204.9	1107.0	1048.3	1023.6	1010.5	1006.1	1003.7
20°	1386.2	1359.1	1251.5	1121.0	1028.4	987.2	981.4	978.0	977.0	975.6
22.5°	1422.6	1351.8	1196.7	1041.5	959.6	941.6	946.5	946.0	945.0	944.0
25°	1487.6	1358.1	1143.3	965.9	901.9	898.0	906.7	906.7	902.8	902.8
27.5°	1573.4	1371.2	1083.7	894.1	849.5	850.0	856.8	854.8	850.5	847.6
30°	1678.1	1379.5	1013.9	829.6	800.5	798.6	800.5	792.3	779.2	778.2
32.5°	1785.3	1369.3	932.9	772.4	748.6	744.3	742.8	731.2	716.2	711.8
35°	1882.3	1331.9	850.5	726.8	699.2	689.5	696.3	692.4	678.8	675.4
37.5°	1953.1	1262.6	776.3	686.6	663.8	661.4	665.7	667.2	651.2	647.8
40°	2000.6	1168.5	712.8	652.6	657.0	647.8	633.2	623.1	618.2	616.8
42.5°	2038.9	1070.6	659.4	636.6	658.5	631.8	600.3	583.8	592.5	596.4
45°	2083.0	975.1	614.8	616.8	651.2	613.4	577.5	561.5	564.9	565.8
47.5°	2143.6	858.7	566.8	584.8	626.9	600.8	563.4	540.6	524.6	517.4
50°	2227.5	721.0	516.9	548.9	603.2	591.5	541.6	517.4	487.8	481.0
52.5°	2285.7	592.5	475.7	518.8	581.8	573.1	524.1	492.6	461.6	455.8
55°	2254.2	492.1	439.8	485.4	553.7	550.3	509.6	467.4	443.2	438.3
57.5°	2096.6	428.6	412.1	453.8	519.3	530.9	490.2	446.1	428.6	425.2
60°	1796.0	388.9	394.7	432.5	491.2	511.5	470.8	434.4	422.8	420.4
62.5°	1393.5	362.2	381.6	417.0	469.4	498.0	460.1	433.0	428.6	425.7
65°	998.4	340.9	367.5	401.5	449.5	485.4	456.3	431.1	432.0	429.6
67.5°	678.3	322.0	350.6	384.0	430.1	474.2	450.9	424.3	436.4	433.5
70°	474.7	303.5	330.7	361.7	405.8	458.7	441.2	414.1	413.1	401.5
72.5°	370.4	279.3	303.5	330.7	374.8	436.9	421.8	391.3	375.3	363.2
73°	353.5	273.5	296.7	323.9	368.0	431.5	416.5	385.0	367.0	355.9
75°	292.4	248.3	269.6	293.8	338.9	406.3	390.3	356.4	333.6	326.8
77.5°	229.8	212.4	232.7	254.6	298.7	369.5	351.5	319.0	306.4	300.6
80°	170.2	176.0	193.9	213.3	258.9	330.2	314.2	281.7	338.0	323.9
82.5°	119.8	133.3	149.8	167.3	217.2	291.9	272.5	239.0	247.3	205.6
85°	70.8	87.3	102.8	117.8	156.6	242.0	225.0	190.6	156.1	148.9
87.5°	41.2	48.5	52.9	68.4	107.6	182.3	158.6	141.1	81.0	54.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)