

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: P200206

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200206  
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-800  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 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: 10328.7 lumens  
Efficiency: N/A  
Efficacy: 120.1 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

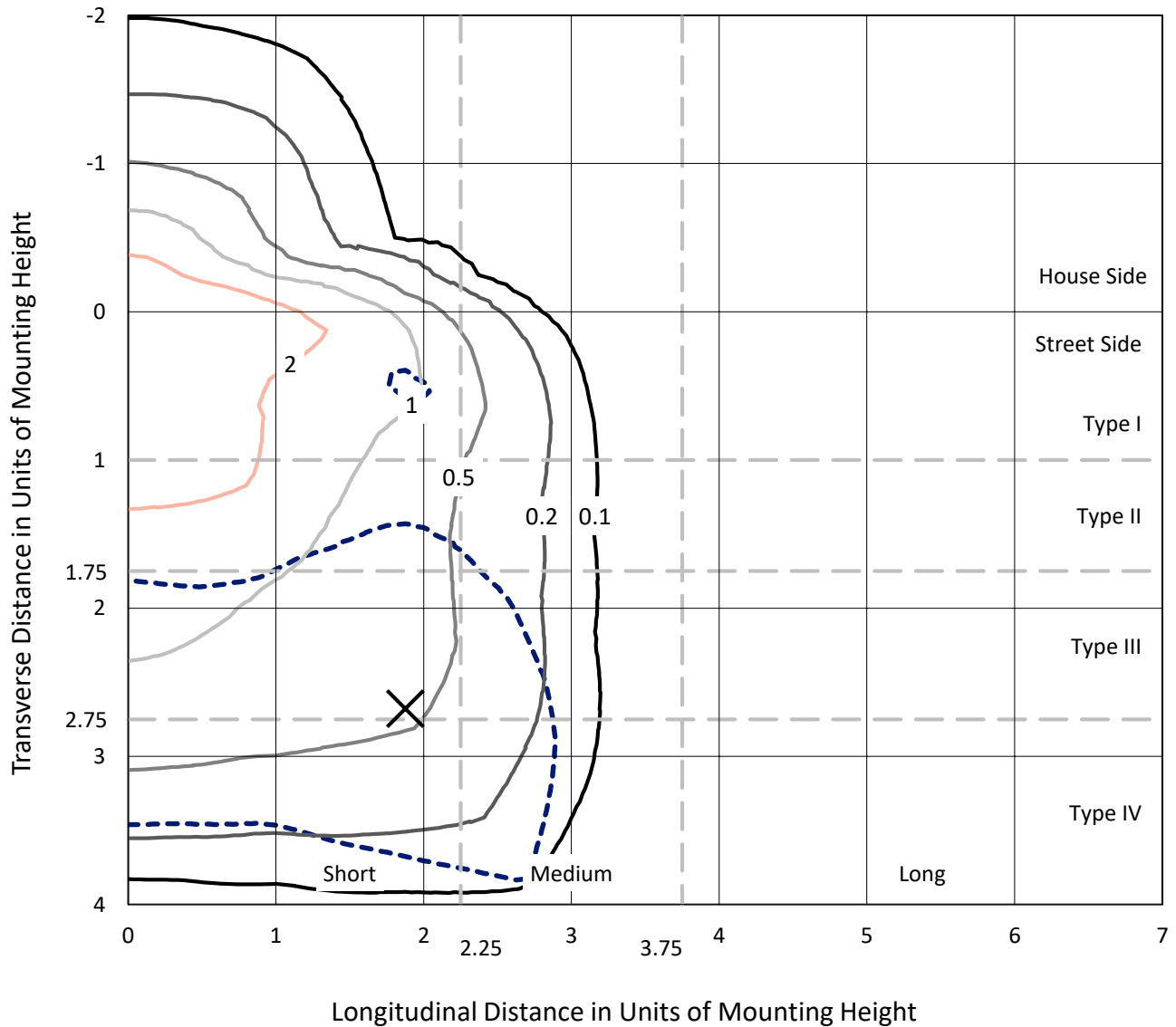
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

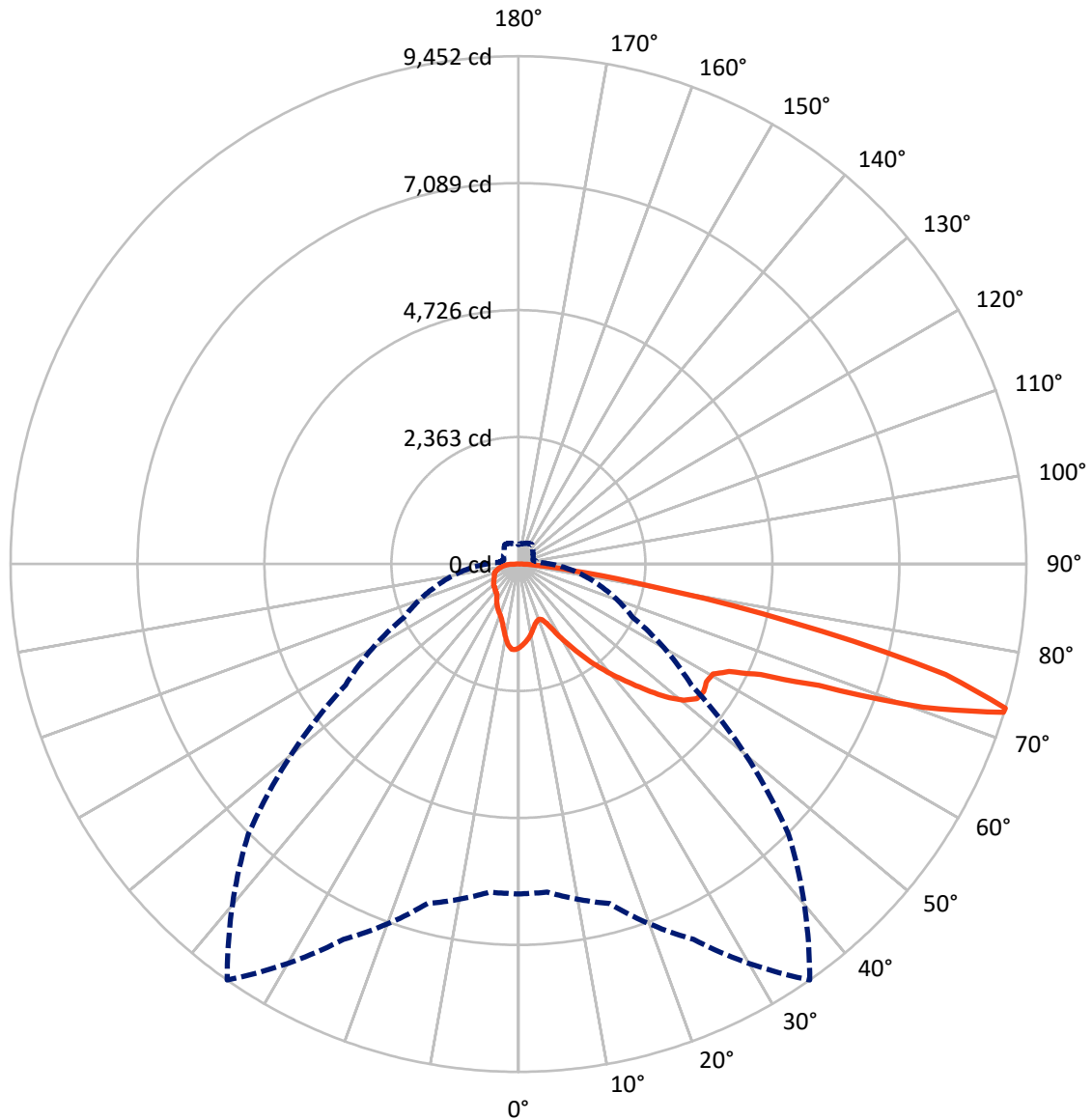
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 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
<b>House Side</b>	Lumens	1970.0	0.0	1970.0
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	8358.8	0.0	8358.8
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	10328.7	0.0	10328.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.1	1.4
10°-20°	352.2	3.4
20°-30°	569.4	5.5
30°-40°	954.9	9.2
40°-50°	1471.9	14.3
50°-60°	1974.7	19.1
60°-70°	2630.7	25.5
70°-80°	2006.4	19.4
80°-90°	227.4	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°	10328.7	100.0
0°-180°	10328.7	100.0



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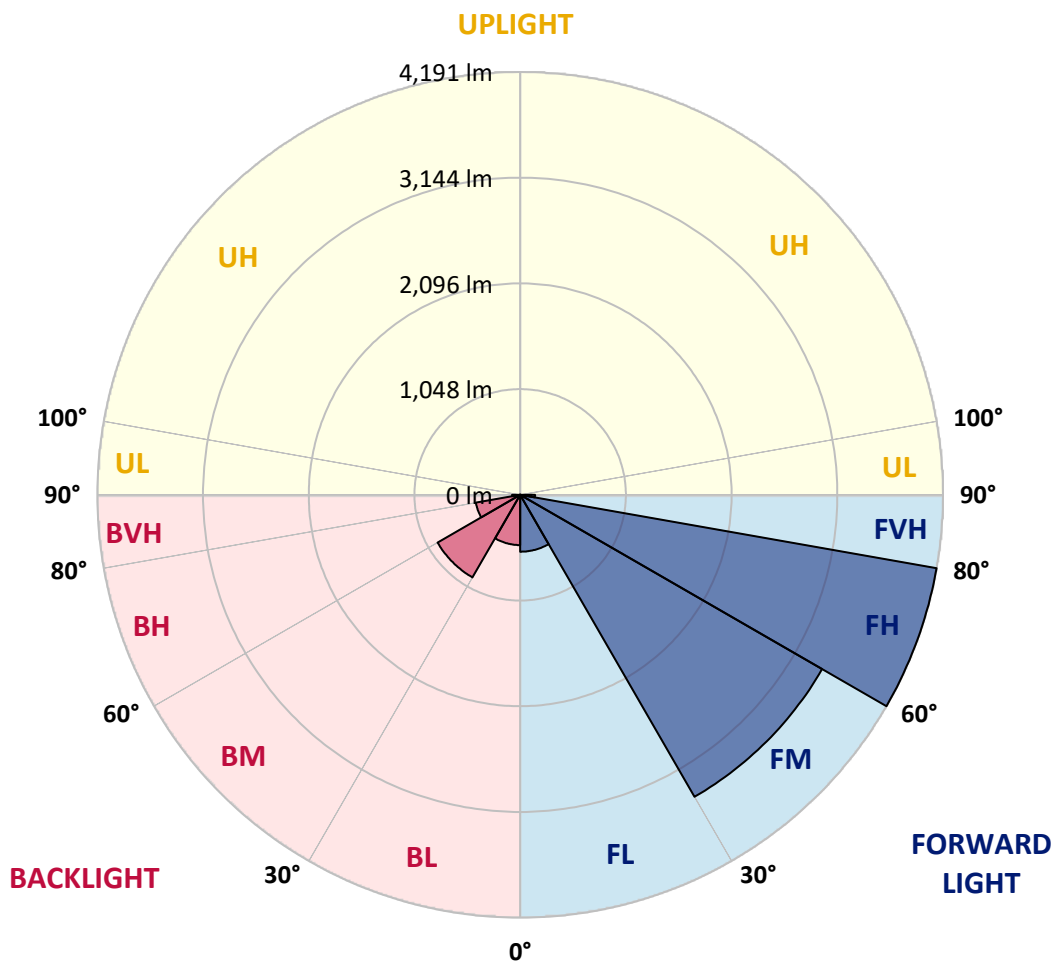
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	564.3	5.5			
FM	(30°-60°)	3456.1	33.5			
FH	(60°-80°)	4191.4	40.6			G2/5000
FVH	(80°-90°)	147.0	1.4			G2/225
BL	(0°-30°)	498.5	4.8	B1/500		
BM	(30°-60°)	945.4	9.2	B1/1000		
BH	(60°-80°)	445.7	4.3	B1/500		G1/500
BVH	(80°-90°)	80.4	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°	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0
2.5°	1497.4	1500.4	1496.9	1501.4	1508.9	1516.7	1522.3	1530.1	1539.1	1551.5	1554.5
5°	1427.0	1431.4	1431.4	1439.4	1453.8	1466.7	1478.6	1491.5	1510.3	1531.7	1540.1
7.5°	1349.6	1352.1	1356.5	1368.5	1389.3	1407.7	1424.6	1445.3	1471.1	1499.4	1514.3
10°	1256.4	1259.9	1266.8	1283.6	1311.9	1337.2	1361.5	1390.3	1423.0	1458.2	1477.0
12.5°	1190.4	1189.4	1192.4	1204.8	1229.6	1260.4	1295.6	1332.3	1372.4	1413.6	1436.4
15°	1168.1	1162.6	1151.2	1148.3	1161.7	1192.4	1233.1	1278.2	1326.3	1375.9	1404.2
17.5°	1181.9	1172.5	1141.3	1118.5	1116.4	1139.8	1182.9	1233.6	1289.1	1349.6	1384.9
20°	1269.3	1247.0	1170.1	1117.0	1098.6	1110.0	1147.8	1201.4	1266.8	1347.1	1392.2
22.5°	1478.1	1445.3	1282.2	1183.5	1121.5	1107.5	1135.9	1192.9	1269.3	1377.9	1435.4
25°	1782.1	1735.5	1474.6	1349.2	1221.2	1147.2	1153.7	1212.2	1304.5	1449.3	1518.8
27.5°	2022.2	1991.9	1726.1	1582.7	1402.7	1254.3	1211.7	1260.8	1376.4	1566.3	1637.3
30°	2165.1	2146.7	1995.0	1847.6	1634.4	1425.0	1322.9	1352.1	1489.0	1728.6	1787.1
32.5°	2330.7	2319.7	2245.4	2109.9	1884.3	1649.2	1498.9	1488.5	1639.8	1923.5	1950.3
35°	2502.3	2498.9	2455.2	2358.0	2152.6	1944.8	1732.6	1662.1	1804.0	2125.9	2109.0
37.5°	2662.0	2656.1	2630.8	2574.3	2433.4	2262.3	1970.6	1840.2	1981.0	2319.3	2244.4
40°	2956.1	2909.6	2822.7	2780.1	2717.1	2529.6	2159.6	2006.3	2164.6	2503.8	2361.5
42.5°	3314.8	3238.9	3077.1	3018.6	3009.7	2740.4	2288.5	2167.5	2349.5	2686.8	2476.6
45°	3597.0	3525.6	3386.2	3312.3	3345.0	2931.4	2417.9	2339.6	2540.0	2878.8	2595.0
47.5°	3898.1	3785.9	3601.5	3623.8	3695.2	3111.9	2549.9	2524.6	2748.9	3093.5	2742.4
50°	3909.0	3823.2	3742.4	3875.8	3986.8	3278.0	2715.1	2718.6	3004.3	3363.9	2938.3
52.5°	3682.3	3663.9	3792.4	4002.2	4162.4	3409.5	2903.1	2919.0	3331.1	3674.3	3153.6
55°	3602.9	3582.1	3730.4	3958.1	4186.2	3518.1	3106.9	3135.8	3726.4	4001.7	3363.4
57.5°	3796.4	3750.2	3760.2	3937.2	4128.2	3637.2	3329.2	3387.2	4155.9	4287.9	3498.3
60°	4337.0	4238.3	4050.8	4046.4	4159.4	3815.7	3586.1	3657.0	4602.4	4424.8	3445.7
62.5°	5095.4	4996.7	4645.5	4416.9	4400.0	4110.3	3901.5	3920.4	4860.3	4239.3	3124.8
65°	5916.2	5828.0	5435.7	5112.8	4957.0	4598.4	4268.1	4037.9	4776.0	3729.0	2563.3
67.5°	6912.8	6818.0	6480.7	6182.6	6032.9	5386.0	4525.5	3925.4	4240.8	2888.7	1842.6
70°	7609.6	7512.9	7380.0	7621.5	7988.1	6522.4	4558.8	3467.5	3167.5	1920.0	1109.1
72.5°	6700.4	6655.3	6897.9	7915.2	9441.8	7211.8	4120.8	2524.6	1839.7	1019.3	641.8
73°	6139.0	6129.1	6542.7	7709.4	9452.3	7105.7	3928.8	2346.5	1577.8	901.7	586.8
75°	2772.1	2852.0	3758.7	5888.5	8212.2	5855.3	2765.2	1346.1	891.3	623.0	442.9
77.5°	666.1	693.9	1176.0	2796.4	5186.2	3489.4	1252.9	665.6	569.9	440.0	323.4
80°	283.7	293.2	452.9	1033.2	2441.8	1405.1	577.4	445.9	394.3	307.0	226.7
82.5°	157.7	167.7	257.0	468.7	985.5	479.2	352.2	310.5	259.4	185.1	147.3
85°	89.3	94.7	150.3	261.9	417.7	192.4	210.8	206.3	146.3	95.2	72.4
87.5°	42.1	45.6	72.4	121.5	163.7	75.4	107.1	118.0	91.8	58.0	37.7
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°	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0
2.5°	1558.0	1566.9	1577.3	1582.7	1587.7	1593.7	1599.6	1599.6	1600.6	1601.1
5°	1547.0	1565.4	1581.8	1588.6	1590.2	1590.2	1588.6	1580.8	1573.8	1576.8
7.5°	1524.2	1551.0	1564.9	1562.4	1543.5	1521.7	1503.3	1481.0	1469.7	1467.6
10°	1491.5	1522.3	1524.7	1500.0	1453.3	1406.7	1368.0	1330.2	1312.4	1307.9
12.5°	1455.2	1483.6	1467.6	1416.6	1341.7	1273.7	1224.6	1186.4	1169.5	1165.1
15°	1426.0	1445.3	1405.1	1324.8	1230.6	1158.7	1118.0	1089.7	1077.8	1074.3
17.5°	1410.6	1414.6	1341.2	1232.6	1132.4	1072.4	1047.1	1033.7	1029.2	1026.7
20°	1418.0	1390.3	1280.2	1146.7	1052.0	1009.9	1003.9	1000.4	999.4	998.0
22.5°	1455.2	1382.8	1224.2	1065.4	981.6	963.2	968.2	967.7	966.7	965.7
25°	1521.7	1389.3	1169.5	988.1	922.6	918.6	927.5	927.5	923.5	923.5
27.5°	1609.5	1402.7	1108.6	914.6	869.0	869.5	876.5	874.4	870.0	867.1
30°	1716.6	1411.2	1037.2	848.6	818.9	816.9	818.9	810.5	797.1	796.1
32.5°	1826.3	1400.7	954.3	790.1	765.8	761.4	759.8	748.0	732.6	728.1
35°	1925.5	1362.5	870.0	743.5	715.2	705.3	712.3	708.3	694.4	690.9
37.5°	1997.9	1291.6	794.1	702.4	679.0	676.6	681.0	682.5	666.1	662.7
40°	2046.5	1195.3	729.2	667.6	672.1	662.7	647.7	637.4	632.4	631.0
42.5°	2085.7	1095.2	674.5	651.2	673.6	646.3	614.1	597.2	606.1	610.1
45°	2130.8	997.5	628.9	631.0	666.1	627.5	590.8	574.4	577.9	578.8
47.5°	2192.8	878.4	579.8	598.2	641.3	614.6	576.3	553.0	536.6	529.3
50°	2278.6	737.5	528.8	561.5	617.0	605.1	554.0	529.3	499.0	492.0
52.5°	2338.2	606.1	486.6	530.7	595.2	586.3	536.1	503.9	472.2	466.3
55°	2305.9	503.4	449.9	496.5	566.4	562.9	521.3	478.1	453.4	448.4
57.5°	2144.7	438.4	421.6	464.2	531.2	543.1	501.5	456.3	438.4	435.0
60°	1837.2	397.8	403.8	442.4	502.5	523.2	481.6	444.4	432.5	430.0
62.5°	1425.5	370.5	390.4	426.6	480.2	509.4	470.7	442.9	438.4	435.5
65°	1021.3	348.7	375.9	410.7	459.8	496.5	466.8	441.0	441.9	439.5
67.5°	693.9	329.4	358.6	392.8	440.0	485.1	461.2	434.0	446.4	443.4
70°	485.6	310.5	338.3	370.0	415.1	469.2	451.3	423.6	422.6	410.7
72.5°	378.9	285.7	310.5	338.3	383.4	446.9	431.5	400.3	383.9	371.5
73°	361.6	279.8	303.5	331.3	376.4	441.4	426.1	393.8	375.4	364.1
75°	299.1	254.0	275.8	300.5	346.7	415.6	399.3	364.6	341.3	334.3
77.5°	235.1	217.3	238.0	260.4	305.6	378.0	359.6	326.3	313.4	307.5
80°	174.1	180.0	198.4	218.2	264.8	337.8	321.4	288.2	345.8	331.3
82.5°	122.5	136.4	153.2	171.1	222.2	298.6	278.8	244.5	253.0	210.3
85°	72.4	89.3	105.2	120.5	160.2	247.6	230.2	195.0	159.7	152.3
87.5°	42.1	49.6	54.1	70.0	110.1	186.5	162.2	144.3	82.9	56.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)