

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: P651267

Luminaire Tested: **GALN-SA2D-840-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651267  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-840-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13092.7 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

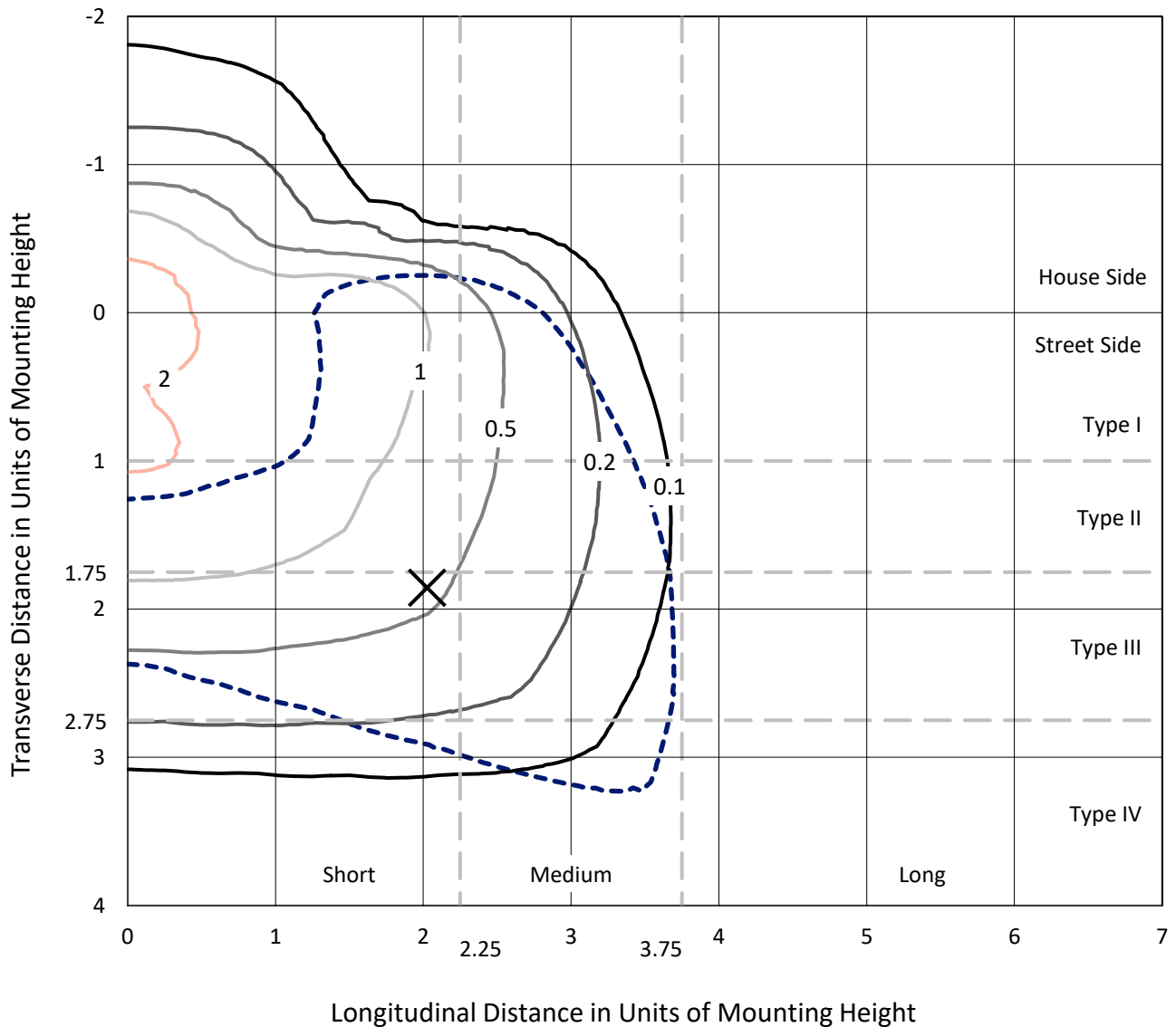
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

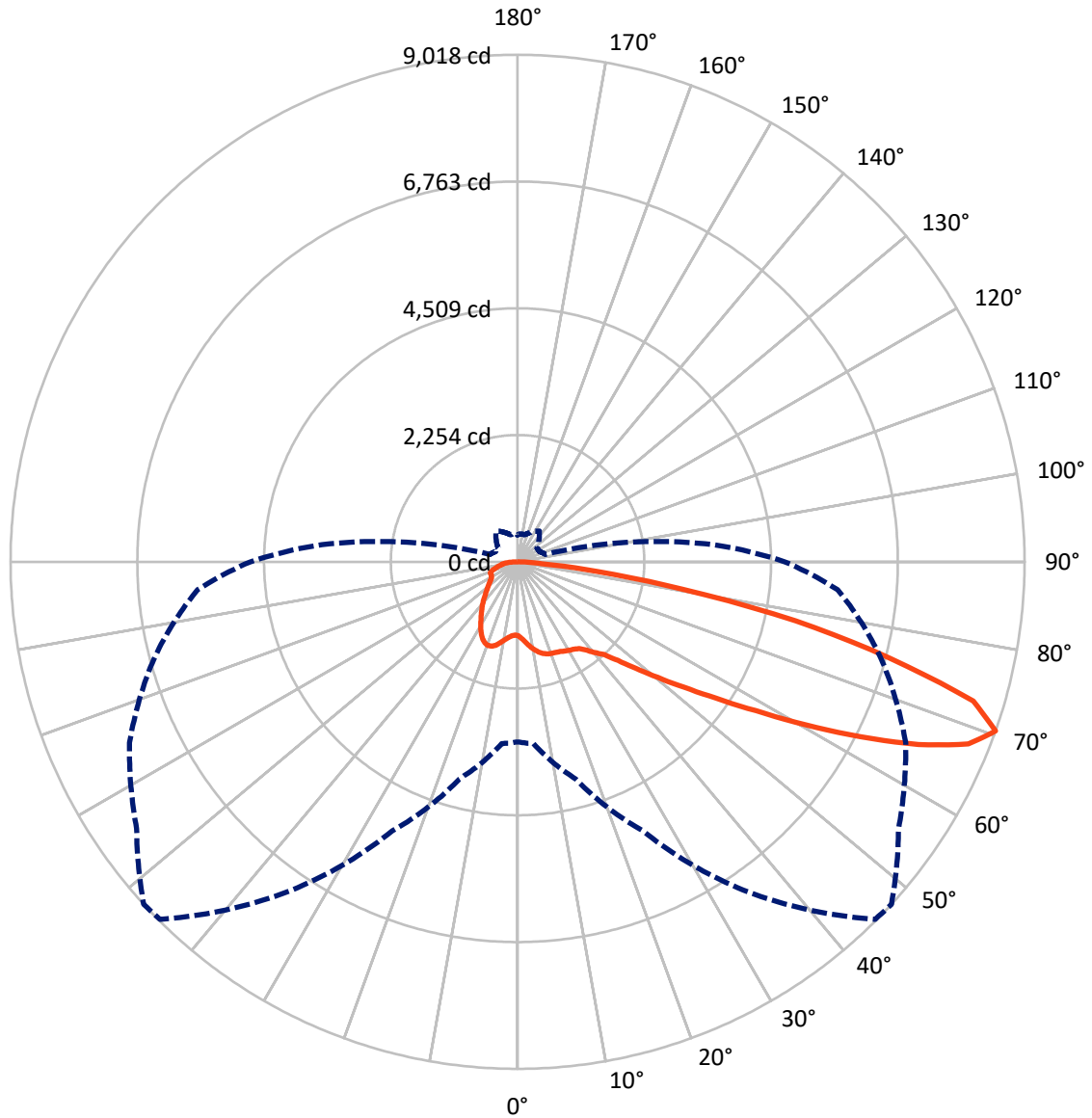
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2964.4	0.0	2964.4
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	10128.2	0.0	10128.2
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	13092.7	0.0	13092.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.5	1.0
10°-20°	452.9	3.5
20°-30°	753.2	5.8
30°-40°	1067.6	8.2
40°-50°	1576.0	12.0
50°-60°	2729.6	20.8
60°-70°	3855.7	29.4
70°-80°	2216.4	16.9
80°-90°	305.8	2.3
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°	13092.7	100.0
0°-180°	13092.7	100.0

**Coefficient of Utilization**

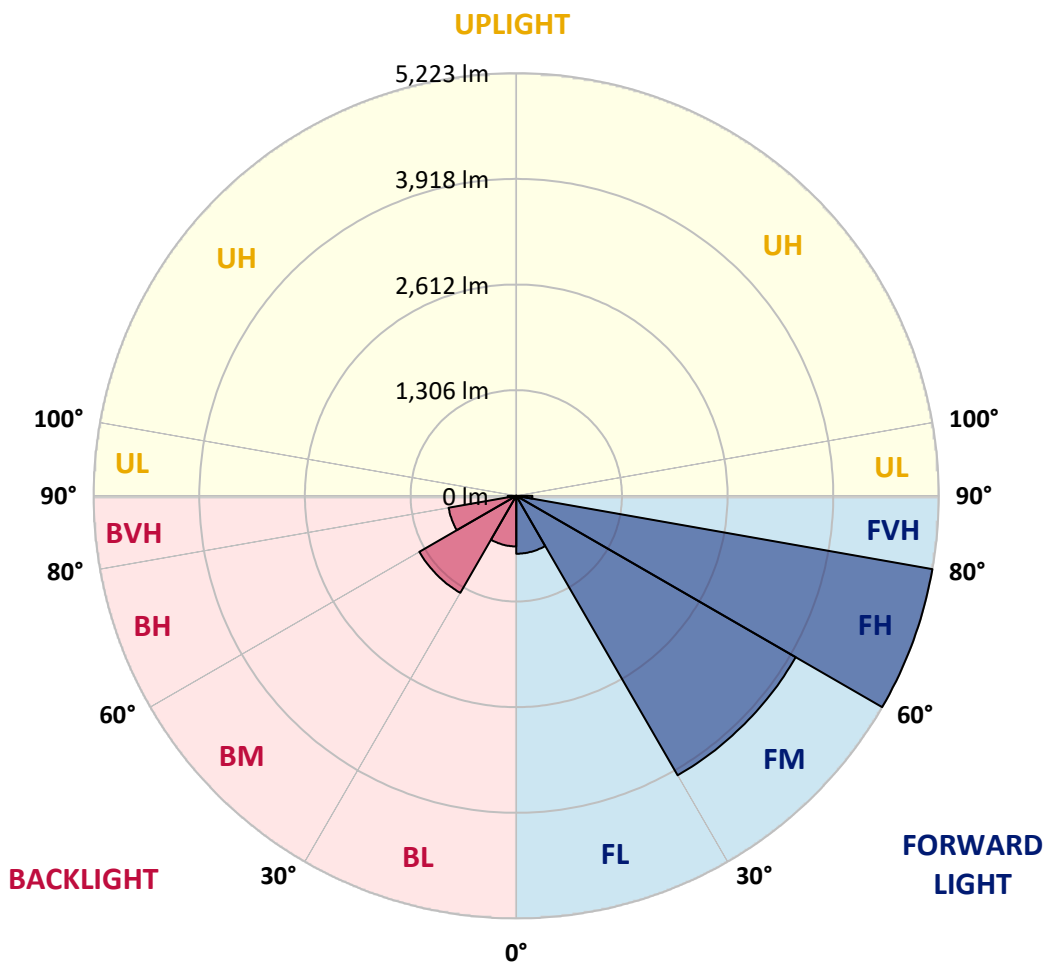


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	716.0	5.5			
FM (30°-60°)	3989.1	30.5			
FH (60°-80°)	5223.4	39.9			G3/7500
FVH (80°-90°)	199.8	1.5			G2/225
BL (0°-30°)	625.7	4.8	B2/1000		
BM (30°-60°)	1384.1	10.6	B2/2500		
BH (60°-80°)	848.7	6.5	B2/1000		G2/1000
BVH (80°-90°)	106.0	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1314.3	1314.3	1314.3	1314.3	1314.3	1314.3	1314.3	1314.3	1314.3	1314.3	1314.3
2.5°	1399.1	1394.2	1393.5	1383.0	1377.4	1366.9	1362.7	1352.9	1341.0	1329.0	1317.8
5°	1509.1	1509.1	1504.2	1489.5	1466.4	1442.6	1432.1	1413.1	1379.5	1352.2	1329.0
7.5°	1622.0	1623.3	1613.5	1591.8	1558.9	1520.4	1510.5	1482.5	1434.8	1394.9	1360.6
10°	1719.3	1719.3	1706.0	1676.5	1635.2	1593.2	1583.4	1551.9	1498.6	1448.9	1404.0
12.5°	1793.6	1793.6	1776.0	1737.5	1692.7	1654.8	1643.7	1613.5	1563.8	1508.4	1451.7
15°	1841.9	1838.4	1818.8	1775.4	1731.9	1699.0	1691.3	1666.0	1620.5	1564.4	1500.7
17.5°	1844.0	1842.6	1823.7	1787.3	1749.4	1727.0	1722.1	1705.3	1669.6	1616.3	1549.0
20°	1803.4	1806.2	1793.6	1767.6	1749.4	1739.6	1737.5	1731.9	1706.7	1656.9	1589.7
22.5°	1760.0	1764.8	1752.9	1738.9	1737.5	1747.3	1748.7	1750.1	1734.0	1685.7	1624.1
25°	1749.4	1752.9	1741.0	1728.4	1736.1	1762.1	1767.6	1773.2	1760.6	1720.0	1664.7
27.5°	1802.7	1799.9	1776.8	1749.4	1754.3	1789.4	1797.0	1803.4	1797.0	1762.1	1715.1
30°	1953.3	1944.2	1898.0	1818.1	1792.8	1817.4	1825.1	1842.6	1842.6	1816.7	1769.7
32.5°	2205.5	2188.0	2103.3	1946.3	1858.7	1844.0	1851.7	1880.5	1895.2	1874.8	1823.7
35°	2511.7	2493.5	2372.3	2161.4	1979.2	1897.3	1895.2	1927.4	1966.6	1921.1	1854.5
37.5°	2819.3	2800.4	2654.6	2417.8	2155.1	2009.3	1996.8	2008.0	2024.8	1941.4	1897.3
40°	3126.8	3104.4	2976.9	2704.4	2370.2	2157.9	2125.0	2074.5	2067.5	2008.0	1980.0
42.5°	3431.6	3411.3	3346.8	3025.9	2628.0	2302.9	2252.5	2165.6	2192.2	2156.5	2131.9
45°	3739.2	3740.6	3671.9	3386.8	2939.0	2570.5	2502.6	2366.7	2429.7	2416.4	2430.4
47.5°	4011.7	4008.2	3983.6	3737.1	3325.1	2915.2	2827.7	2670.0	2777.9	2826.9	2934.2
50°	4275.8	4273.7	4275.1	4134.3	3773.5	3325.1	3228.4	3063.1	3306.2	3476.4	3668.4
52.5°	4654.2	4666.0	4581.3	4544.2	4318.5	3809.2	3702.8	3531.8	3930.4	4198.8	4573.6
55°	5033.9	5024.0	4957.5	4996.0	4888.9	4382.4	4270.9	4135.0	4625.4	4919.0	5482.3
57.5°	5257.4	5260.9	5328.8	5517.3	5593.0	5097.0	4996.0	4891.0	5406.6	5614.7	6290.8
60°	5458.5	5474.6	5670.0	6025.9	6231.2	5974.8	5885.1	5782.9	6123.3	6206.0	6992.8
62.5°	5521.5	5571.3	5912.5	6444.9	6853.4	6965.5	6854.1	6628.5	6805.7	6773.5	7468.5
65°	5207.0	5274.9	5886.6	6601.8	7409.0	7905.7	7834.9	7415.9	7387.3	7193.2	7546.3
67.5°	4378.8	4446.8	5232.2	6272.6	7638.8	8719.8	8649.1	7990.5	7740.4	7232.4	6957.8
70°	3203.9	3246.6	3997.7	5281.2	7177.1	8993.1	9017.5	8270.7	7614.2	6699.2	5712.8
72.5°	1846.1	1940.7	2466.8	3715.4	5863.5	8302.3	8472.5	7687.8	6817.0	5588.8	3994.2
75°	793.8	795.9	1140.6	2049.3	3971.0	6673.3	6838.0	6372.8	5353.4	3864.6	2132.7
77.5°	377.6	384.7	501.7	915.0	2185.9	4610.7	5054.9	4502.1	3423.9	1856.6	805.7
80°	245.2	250.1	306.9	454.0	1071.9	2673.5	2983.2	2597.2	1510.5	663.5	347.5
82.5°	148.5	150.0	205.3	277.4	589.9	1210.6	1427.2	1127.3	644.5	397.3	204.6
85°	90.4	91.1	124.7	171.6	358.0	418.2	429.5	426.0	378.4	260.0	109.3
87.5°	43.5	44.8	64.4	81.2	140.8	129.6	122.6	142.2	178.6	140.1	46.9
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1314.3	1314.3	1314.3	1314.3	1314.3	1314.3	1314.3	1314.3	1314.3	1314.3	1314.3
2.5°	1313.0	1310.9	1305.9	1303.8	1302.5	1303.1	1302.5	1302.5	1303.1	1303.1	1303.1
5°	1319.3	1315.7	1308.0	1308.0	1312.2	1322.1	1331.1	1338.2	1345.9	1345.2	1345.2
7.5°	1346.6	1340.3	1331.1	1334.0	1344.5	1359.9	1376.0	1391.4	1406.8	1408.3	1407.5
10°	1386.5	1380.2	1370.4	1373.9	1390.7	1413.8	1434.2	1456.6	1473.3	1478.3	1476.9
12.5°	1432.1	1419.4	1411.0	1420.9	1447.4	1478.3	1497.9	1514.7	1526.7	1533.6	1530.9
15°	1478.3	1466.4	1456.6	1476.9	1509.1	1537.9	1547.7	1550.5	1552.6	1559.6	1558.1
17.5°	1523.1	1507.0	1503.5	1530.1	1561.0	1573.6	1568.0	1556.0	1546.9	1552.6	1551.9
20°	1563.1	1550.5	1549.0	1575.7	1587.6	1575.7	1551.9	1530.9	1514.7	1516.2	1515.4
22.5°	1600.9	1591.1	1592.5	1603.7	1584.8	1544.2	1504.9	1476.2	1458.7	1462.2	1464.3
25°	1642.9	1633.1	1636.7	1618.4	1556.0	1485.3	1428.5	1404.0	1397.0	1404.0	1408.9
27.5°	1697.6	1691.3	1689.1	1619.1	1504.9	1398.4	1334.0	1324.8	1331.1	1346.6	1354.3
30°	1756.4	1756.4	1745.2	1607.2	1434.8	1294.0	1238.0	1239.4	1261.1	1282.9	1290.5
32.5°	1813.2	1825.1	1790.1	1574.9	1344.5	1192.5	1149.7	1151.1	1170.0	1196.7	1203.6
35°	1860.1	1894.4	1828.6	1516.2	1238.0	1107.0	1074.7	1055.8	1056.5	1076.8	1082.5
37.5°	1924.5	1988.4	1851.0	1428.5	1124.5	1034.1	997.7	964.7	943.0	934.6	934.6
40°	2036.6	2130.6	1856.6	1298.9	1017.3	964.7	912.9	873.6	831.7	793.8	786.8
42.5°	2226.5	2345.0	1845.4	1149.7	920.6	888.3	838.0	789.6	731.4	678.2	674.0
45°	2562.9	2623.8	1815.3	994.9	834.4	814.8	765.7	713.3	651.6	603.9	600.4
47.5°	3101.6	3015.4	1775.4	857.6	756.0	750.3	712.5	651.6	589.9	557.0	553.5
50°	3888.4	3631.9	1769.7	758.1	692.9	695.7	664.9	608.8	554.9	527.6	523.4
52.5°	4835.7	4376.7	1806.9	688.0	637.6	648.1	632.7	580.8	533.2	510.1	505.9
55°	5754.8	5046.5	1829.3	633.4	585.7	605.4	607.5	564.0	520.6	497.5	494.6
57.5°	6501.0	5550.9	1729.9	583.6	540.8	571.0	586.4	554.2	514.3	496.7	493.9
60°	7020.2	5789.2	1446.8	539.5	508.0	543.7	578.7	554.9	529.7	531.8	533.2
62.5°	7185.5	5683.4	1085.2	506.5	485.5	534.5	591.3	583.6	557.7	573.8	576.6
65°	6911.5	5246.2	786.8	480.6	465.9	540.8	629.2	604.6	547.9	559.8	559.8
67.5°	5994.4	4519.6	612.3	456.8	443.5	552.8	667.0	602.5	524.8	538.7	526.1
70°	4755.0	3496.0	510.1	430.2	419.7	535.3	670.4	580.8	497.5	500.2	476.4
72.5°	3155.5	2298.7	438.6	404.9	383.2	481.3	641.8	552.8	470.8	454.7	430.8
75°	1546.3	1146.2	382.6	373.4	335.6	419.0	602.5	526.1	442.1	416.9	403.5
77.5°	599.0	487.6	326.5	333.5	292.2	369.2	550.7	488.3	404.3	370.0	359.4
80°	290.7	276.8	267.6	278.1	240.3	314.5	503.0	455.4	369.2	331.4	316.0
82.5°	180.7	171.0	205.3	216.5	184.9	287.3	477.1	427.4	325.0	274.7	262.1
85°	91.8	98.1	137.3	147.8	132.5	228.4	393.1	320.8	234.7	194.8	196.2
87.5°	35.1	46.9	72.2	77.8	70.7	120.5	216.5	187.0	150.6	102.3	94.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)