

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: P526814

Luminaire Tested: **GALN-SA1D-735-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526814  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-735-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6217 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

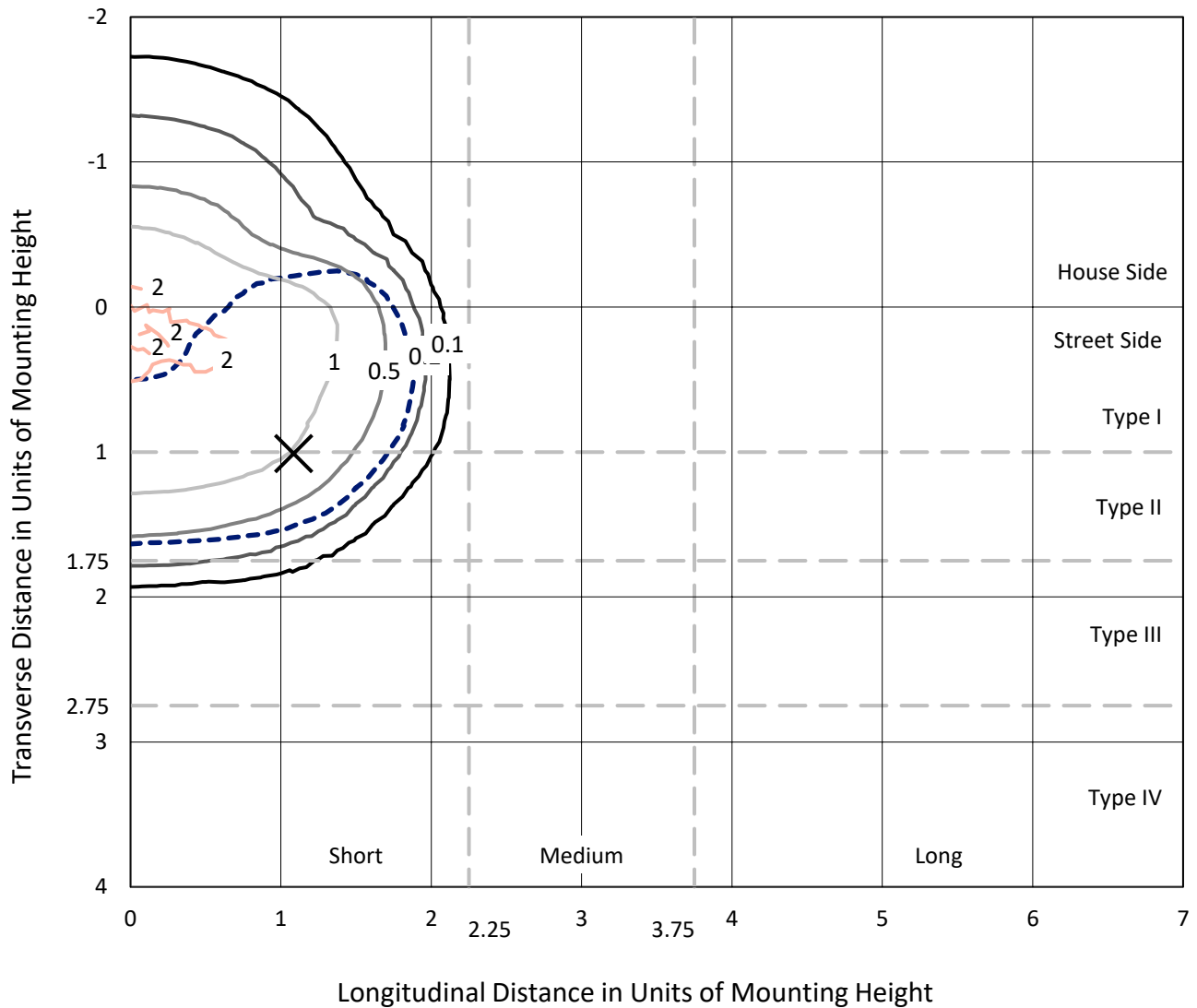
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

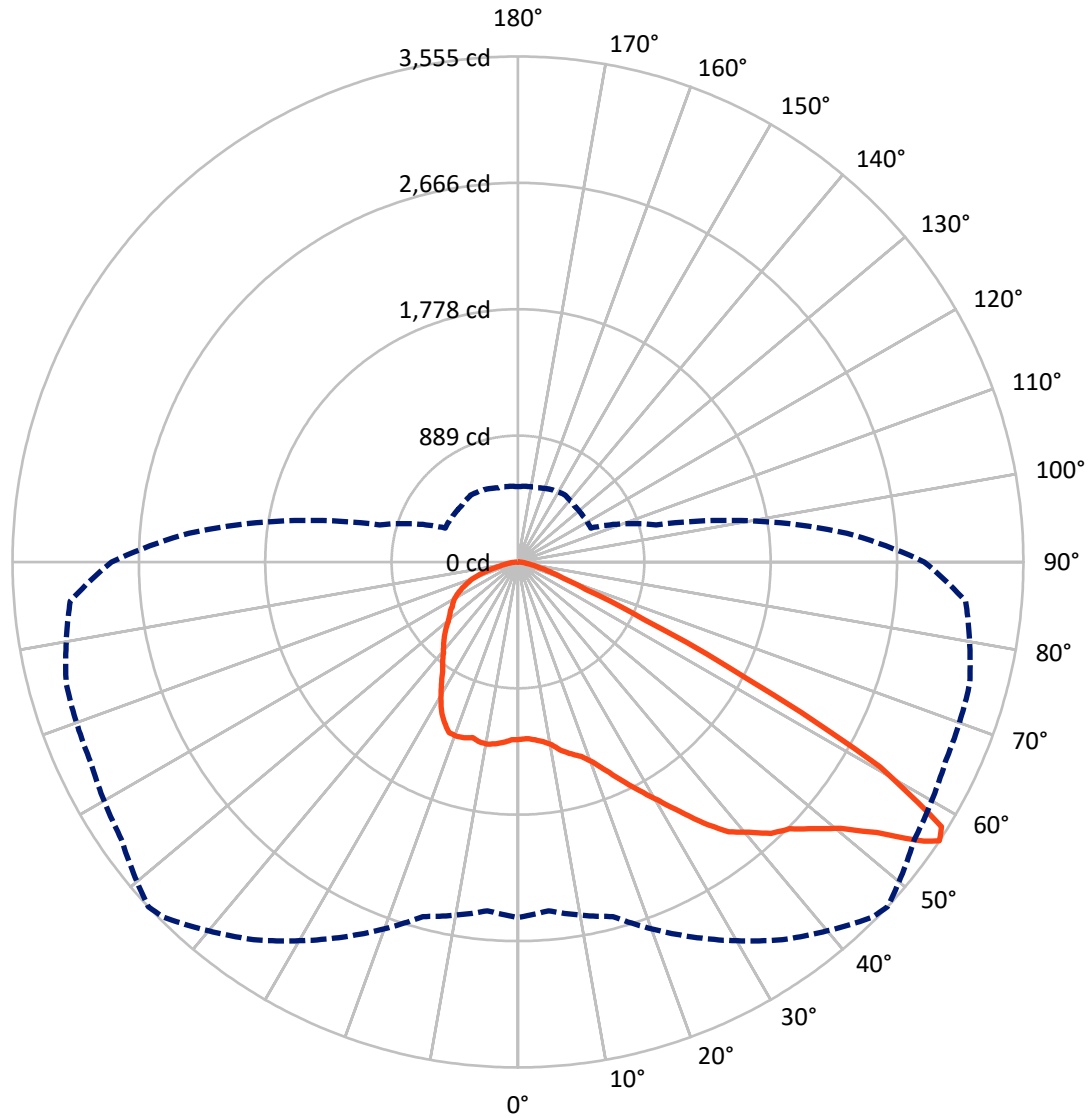
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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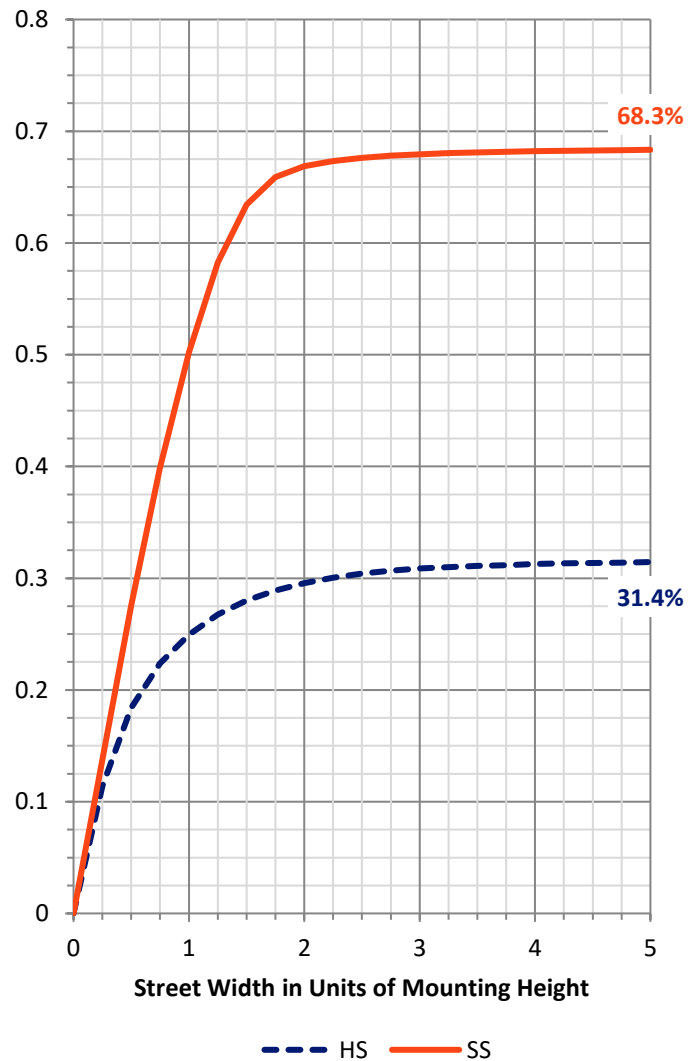
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1970.1	0.0	1970.1
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	4246.9	0.0	4246.9
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	6217.0	0.0	6217.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.7	2.0
10°-20°	383.8	6.2
20°-30°	678.5	10.9
30°-40°	1019.1	16.4
40°-50°	1398.7	22.5
50°-60°	1666.3	26.8
60°-70°	713.1	11.5
70°-80°	201.8	3.2
80°-90°	34.0	0.5
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°	6217.0	100.0
0°-180°	6217.0	100.0



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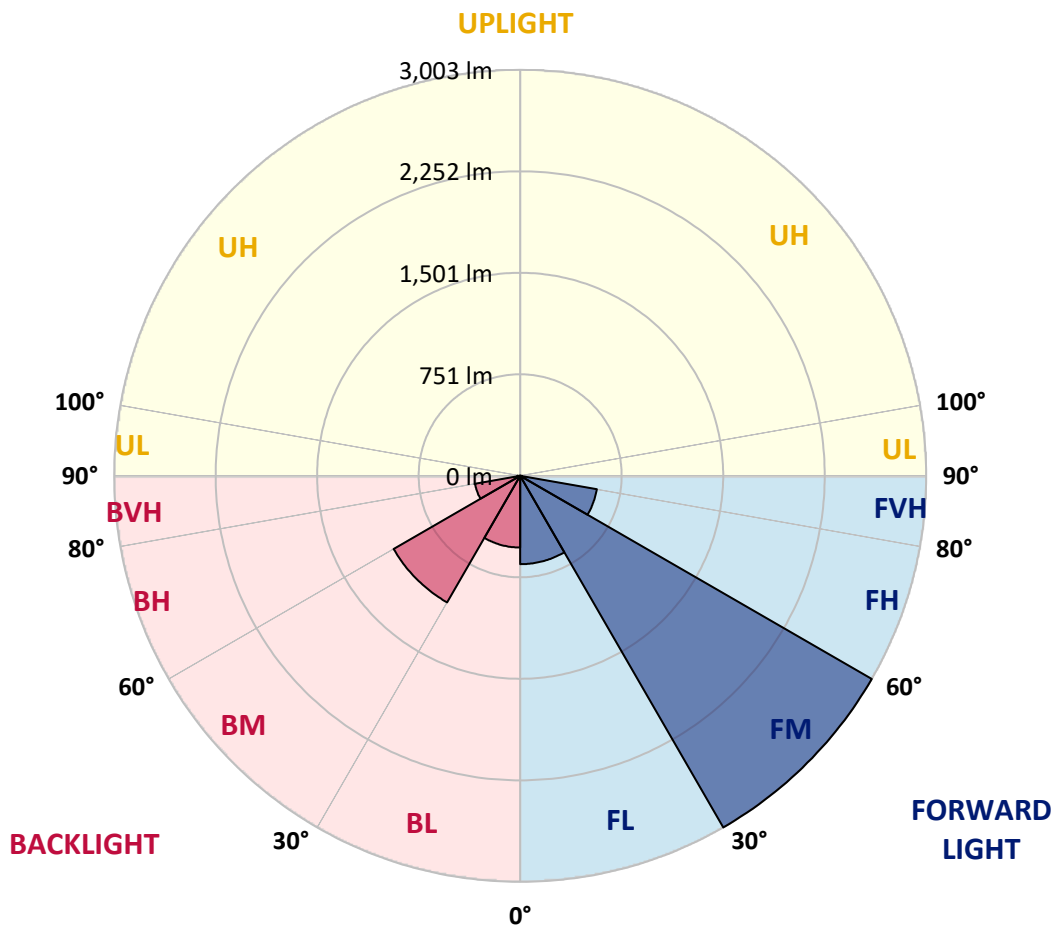
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	653.6	10.5			
FM (30°-60°)	3003.0	48.3			
FH (60°-80°)	575.9	9.3			G0/660
FVH (80°-90°)	14.4	0.2			G1/100
BL (0°-30°)	530.4	8.5	B2/1000		
BM (30°-60°)	1081.2	17.4	B2/2500		
BH (60°-80°)	339.0	5.5	B1/500		G1/500
BVH (80°-90°)	19.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1248.8	1248.8	1248.8	1248.8	1248.8	1248.8	1248.8	1248.8	1248.8	1248.8	1248.8
2.5°	1244.0	1241.7	1240.1	1252.8	1248.0	1248.8	1244.0	1248.8	1252.0	1244.8	1255.1
5°	1241.7	1248.8	1242.5	1246.4	1256.7	1253.6	1256.7	1266.3	1263.9	1261.5	1258.3
7.5°	1263.9	1264.7	1269.4	1271.0	1274.2	1271.0	1275.8	1284.5	1282.1	1268.6	1270.2
10°	1295.6	1297.2	1298.0	1306.7	1312.2	1313.0	1307.5	1299.6	1298.8	1317.0	1304.3
12.5°	1332.1	1328.1	1337.6	1340.8	1347.1	1354.3	1361.4	1344.7	1355.1	1355.8	1340.8
15°	1385.2	1389.1	1378.0	1378.0	1380.4	1381.2	1401.0	1393.1	1391.5	1382.8	1389.1
17.5°	1464.5	1437.5	1436.7	1425.6	1424.0	1430.4	1437.5	1443.9	1465.3	1447.8	1413.7
20°	1522.4	1528.7	1505.7	1492.2	1494.6	1508.9	1501.7	1530.3	1545.3	1516.8	1483.5
22.5°	1624.6	1603.2	1608.8	1578.6	1581.0	1596.1	1595.3	1624.6	1633.4	1588.2	1539.8
25°	1693.6	1688.1	1692.8	1669.0	1672.2	1684.1	1703.1	1751.5	1737.2	1687.3	1575.5
27.5°	1794.3	1783.2	1779.3	1770.5	1767.4	1799.1	1821.3	1872.8	1862.5	1789.6	1638.9
30°	1897.4	1890.3	1894.2	1858.5	1871.2	1938.6	1945.0	2015.5	2010.8	1882.3	1709.5
32.5°	1968.8	1972.7	1979.9	1960.0	2016.3	2070.2	2091.7	2171.7	2175.7	2041.7	1845.9
35°	2083.7	2070.2	2074.2	2097.2	2123.4	2221.7	2256.6	2309.7	2343.0	2209.0	1976.7
37.5°	2155.9	2170.1	2153.5	2190.0	2258.2	2376.3	2408.0	2462.7	2497.6	2373.9	2155.1
40°	2268.5	2245.5	2257.4	2283.5	2353.3	2507.1	2498.4	2554.7	2565.8	2514.3	2321.6
42.5°	2389.8	2378.7	2362.0	2421.5	2480.2	2592.0	2609.4	2583.2	2639.5	2651.4	2559.5
45°	2534.9	2548.4	2550.7	2552.3	2603.9	2701.4	2677.6	2654.6	2719.6	2806.0	2706.9
47.5°	2669.7	2626.9	2657.8	2700.6	2773.5	2774.3	2802.1	2747.4	2816.4	2893.3	2840.1
50°	2714.9	2694.3	2735.5	2816.4	2928.9	2940.8	2944.0	2866.3	2902.0	2963.0	2886.1
52.5°	2697.4	2690.3	2795.7	2921.0	3085.9	3146.2	3162.1	3066.1	3085.9	3058.2	2987.6
55°	2614.2	2635.6	2741.8	2997.1	3250.1	3436.4	3466.5	3345.2	3219.1	3240.6	3162.9
56°	2500.0	2462.7	2581.7	2910.7	3242.9	3530.8	3555.3	3403.9	3318.3	3290.5	3161.3
57.5°	2121.0	2072.6	2228.8	2618.9	3062.9	3495.1	3513.3	3428.5	3301.6	3245.3	2930.5
60°	1241.7	1265.5	1463.7	1806.2	2362.8	2865.5	2926.6	2988.4	2903.6	2651.4	2181.2
62.5°	599.4	584.4	726.3	1035.5	1439.9	1829.2	1811.0	1984.6	2079.8	1883.9	1377.3
65°	314.0	312.4	396.4	565.3	791.3	961.0	977.6	1071.2	1202.0	970.5	699.3
67.5°	230.7	237.1	279.1	397.2	509.0	519.3	517.0	563.7	576.4	487.6	429.7
70°	180.8	184.0	214.9	302.1	379.0	339.4	332.2	337.8	375.0	390.9	371.9
72.5°	130.8	134.0	160.2	203.8	237.1	231.5	236.3	267.2	313.2	329.8	310.0
75°	87.2	89.6	103.9	124.5	140.3	151.4	160.2	195.8	238.7	248.2	238.7
77.5°	60.3	62.6	72.2	88.0	89.6	96.7	99.9	116.6	142.7	154.6	148.3
80°	34.1	34.1	38.9	45.2	55.5	65.0	66.6	80.1	92.0	99.9	101.5
82.5°	15.9	16.7	20.6	27.8	36.5	45.2	46.8	55.5	64.2	72.2	74.5
85°	7.9	8.7	11.9	16.7	22.2	27.0	26.2	27.0	28.5	27.0	27.8
87.5°	2.4	2.4	3.2	4.0	3.2	4.0	4.0	4.8	5.6	6.3	7.1
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°	1248.8	1248.8	1248.8	1248.8	1248.8	1248.8	1248.8	1248.8	1248.8	1248.8	1248.8
2.5°	1255.9	1258.3	1242.5	1257.5	1252.0	1251.2	1262.3	1260.7	1264.7	1263.1	1253.6
5°	1256.7	1251.2	1267.8	1252.8	1259.9	1275.0	1264.7	1288.5	1276.6	1284.5	1267.0
7.5°	1281.3	1282.9	1279.7	1286.1	1282.9	1290.0	1284.5	1290.0	1280.5	1281.3	1297.2
10°	1302.7	1298.0	1303.5	1295.6	1301.1	1298.8	1286.1	1282.1	1285.3	1281.3	1291.6
12.5°	1342.4	1333.6	1329.7	1320.2	1313.8	1290.0	1270.2	1259.1	1274.2	1276.6	1271.8
15°	1382.8	1383.6	1365.4	1344.0	1304.3	1268.6	1273.4	1277.4	1277.4	1283.7	1271.8
17.5°	1408.2	1408.2	1391.5	1348.7	1308.3	1287.7	1282.9	1270.2	1259.1	1257.5	1256.7
20°	1452.6	1439.1	1401.0	1347.9	1306.7	1297.2	1261.5	1231.4	1208.4	1200.4	1199.6
22.5°	1503.3	1469.2	1416.1	1349.5	1304.3	1290.8	1224.2	1179.0	1137.8	1120.4	1122.7
25°	1550.1	1495.4	1424.8	1342.4	1295.6	1230.6	1156.0	1093.4	1050.6	1036.3	1029.2
27.5°	1582.6	1523.1	1424.8	1348.7	1263.1	1163.2	1087.1	1007.0	969.7	960.2	961.8
30°	1626.2	1558.0	1449.4	1335.2	1198.1	1076.0	984.8	932.4	910.2	902.3	907.9
32.5°	1728.5	1649.2	1483.5	1302.7	1121.2	988.7	915.0	885.7	853.2	837.3	831.7
35°	1839.5	1735.6	1516.8	1248.0	1034.7	909.4	863.5	836.5	797.7	780.2	783.4
37.5°	1996.5	1846.6	1519.2	1157.6	941.2	865.0	823.0	781.0	749.3	722.3	714.4
40°	2208.2	1998.1	1513.6	1062.5	865.8	812.7	781.8	729.5	693.8	674.8	678.7
42.5°	2394.5	2175.7	1490.6	954.6	797.7	777.0	742.1	690.6	655.7	635.9	634.3
45°	2551.5	2306.5	1447.0	862.7	740.6	737.4	697.0	657.3	629.6	611.3	619.2
47.5°	2696.6	2412.0	1381.2	770.7	688.2	694.6	655.7	631.1	613.7	597.0	596.3
50°	2749.0	2410.4	1323.3	694.6	646.2	643.0	641.5	615.3	597.0	582.8	589.1
52.5°	2836.2	2437.4	1260.7	642.2	608.1	608.9	614.5	595.5	574.8	566.1	574.1
55°	2961.5	2441.3	1122.7	581.2	576.4	582.0	582.0	569.3	551.9	544.7	540.8
56°	2859.2	2323.2	1007.0	565.3	560.6	560.6	575.6	561.4	540.0	534.4	529.7
57.5°	2637.2	2035.4	842.8	546.3	539.2	550.3	558.2	543.1	523.3	515.4	520.1
60°	1818.9	1377.3	633.5	505.1	505.1	523.3	529.7	507.5	498.7	497.9	491.6
62.5°	1061.7	802.4	495.6	467.8	469.4	484.5	489.2	476.5	465.4	478.9	485.3
65°	563.0	478.9	425.0	428.2	429.0	440.8	461.5	460.7	459.9	463.8	464.6
67.5°	407.5	398.0	386.1	383.0	384.6	393.3	413.9	429.7	429.0	419.4	412.3
70°	363.1	349.7	342.5	343.3	337.0	347.3	363.9	374.2	356.0	344.9	340.2
72.5°	302.1	298.1	293.4	294.2	281.5	279.1	260.1	260.1	255.3	252.1	257.7
75°	230.7	229.1	231.5	227.6	214.1	199.8	188.7	178.4	162.5	156.2	153.0
77.5°	145.9	150.6	156.2	147.5	141.9	131.6	120.5	110.2	97.5	90.4	90.4
80°	99.1	103.1	107.0	105.5	99.1	89.6	80.9	69.8	61.1	55.5	54.7
82.5°	75.3	78.5	84.0	77.7	71.4	63.4	56.3	48.4	40.4	34.1	34.1
85°	27.0	30.9	34.1	37.3	39.6	40.4	34.9	28.5	23.0	18.2	17.4
87.5°	7.1	7.9	8.7	7.9	7.9	7.9	8.7	7.9	7.1	5.6	5.6
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)