

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: P526907

Luminaire Tested: **GALN-SA1D-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526907  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-827-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3365 lumens  
Efficiency: N/A  
Efficacy: 51.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

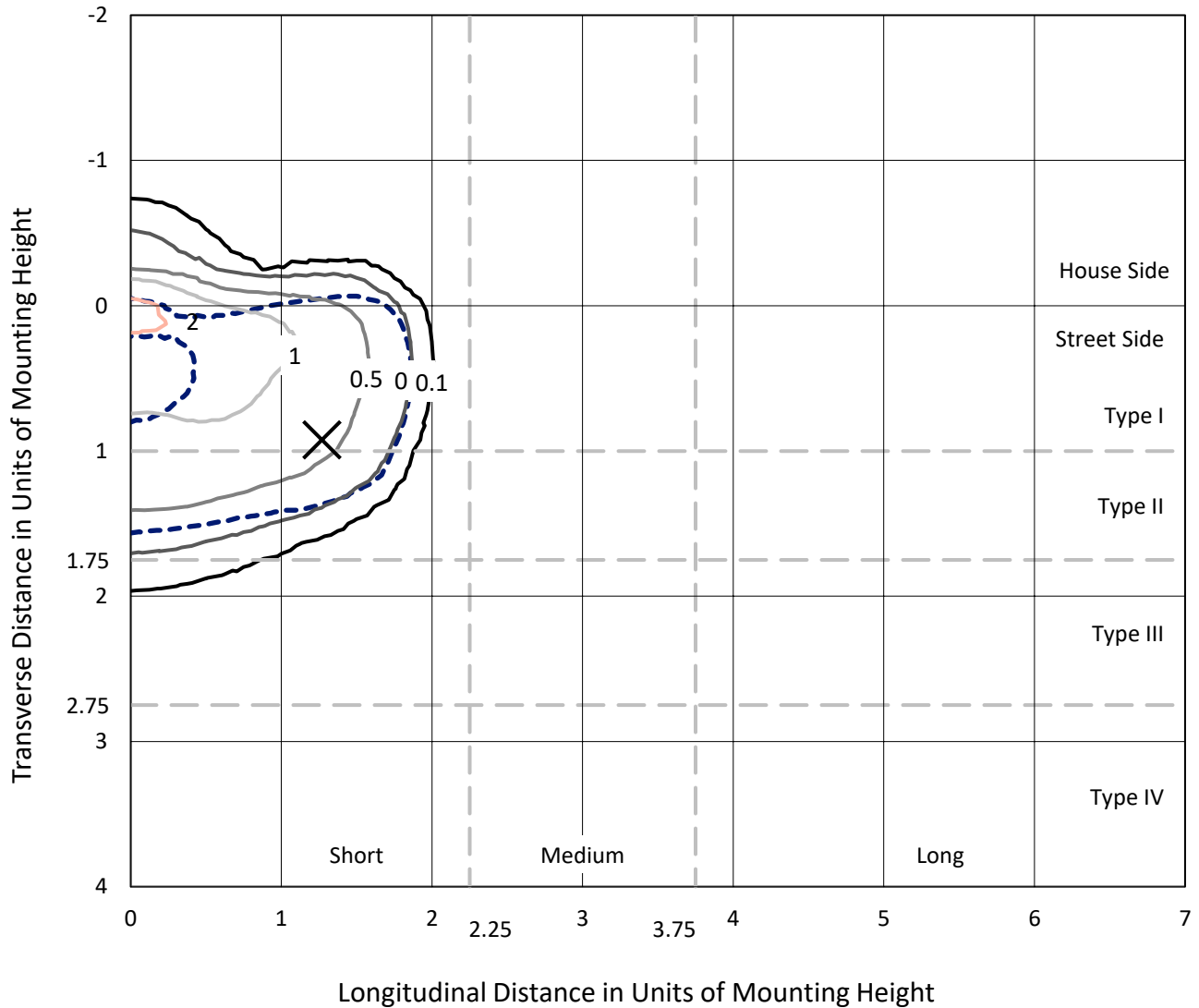
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

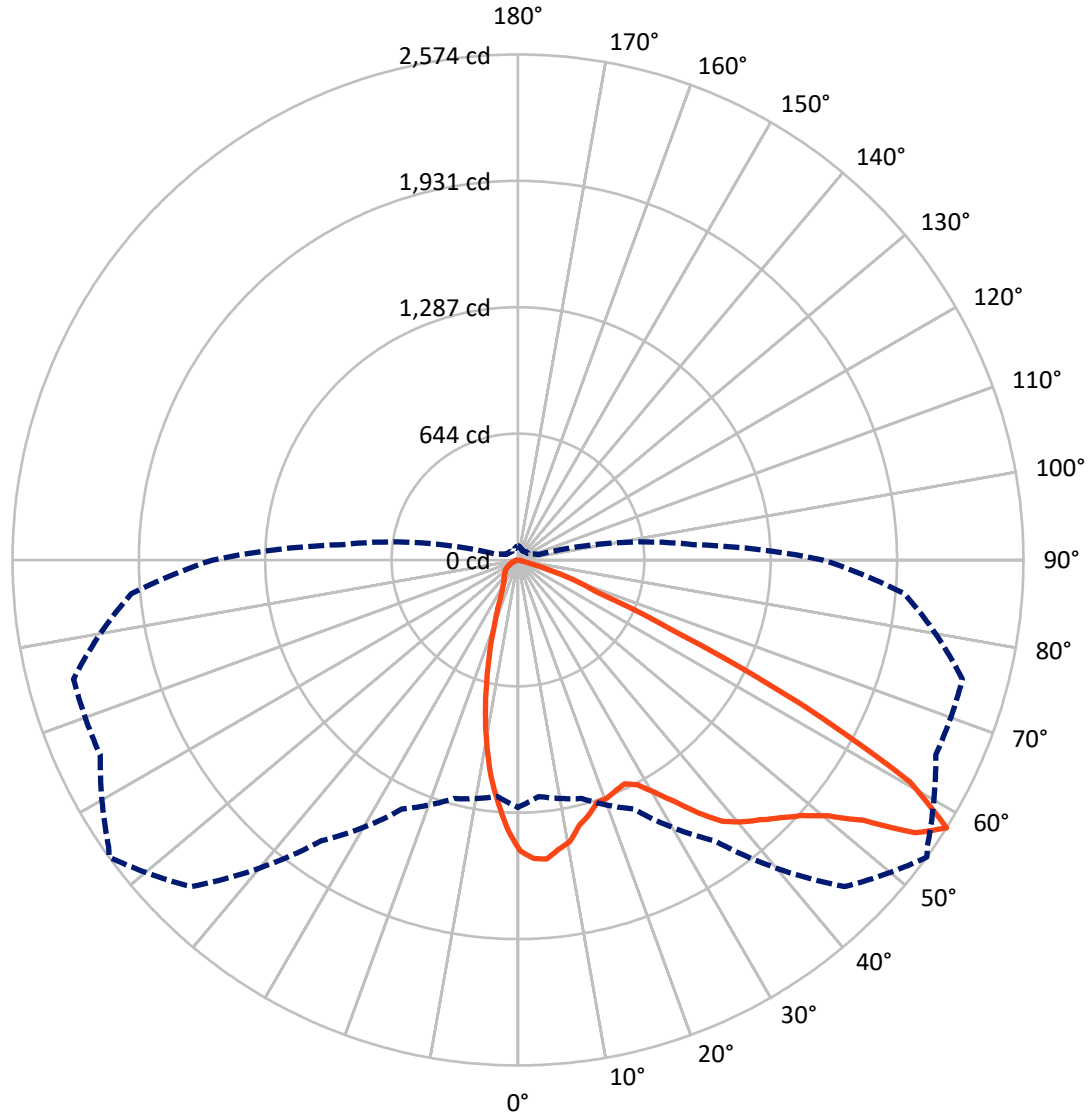
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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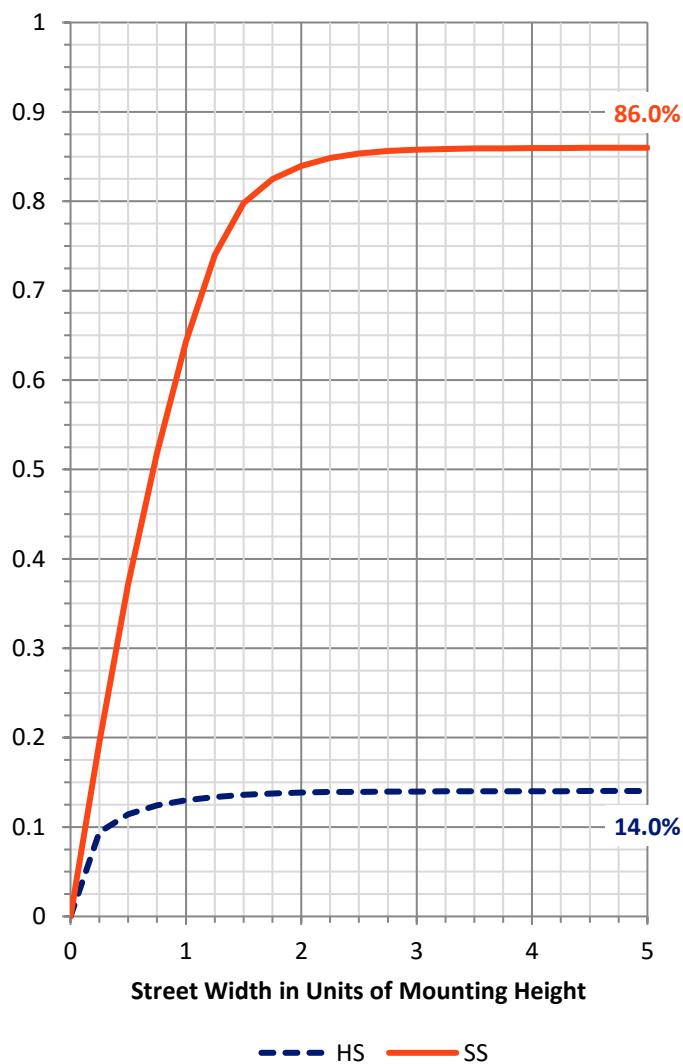
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	475.5	0.0	475.5
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	2889.5	0.0	2889.5
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	3365.0	0.0	3365.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.0	3.7
10°-20°	264.8	7.9
20°-30°	351.0	10.4
30°-40°	510.0	15.2
40°-50°	756.3	22.5
50°-60°	945.7	28.1
60°-70°	373.1	11.1
70°-80°	37.1	1.1
80°-90°	2.9	0.1
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°	3365.0	100.0
0°-180°	3365.0	100.0

**Coefficient of Utilization**

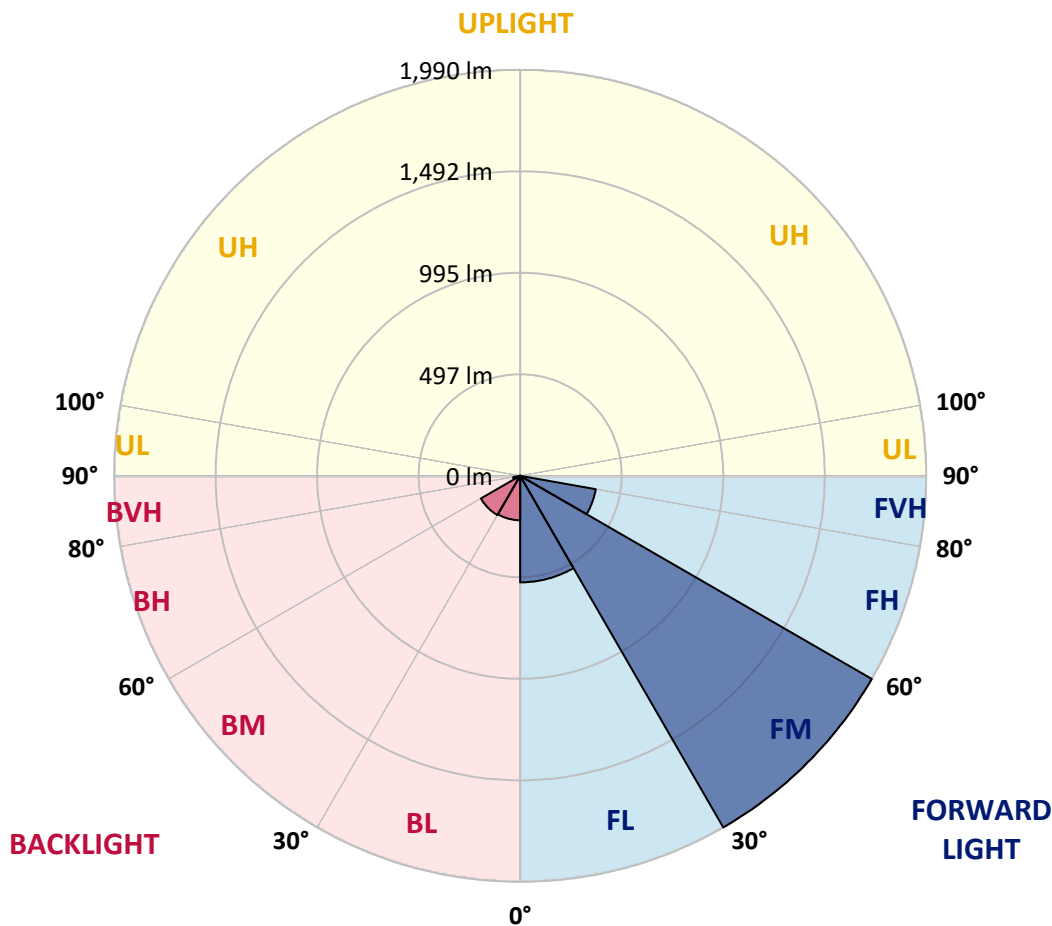


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	522.3	15.5			
FM (30°-60°)	1989.7	59.1			
FH (60°-80°)	376.1	11.2			G0/660
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	217.5	6.5	B1/500		
BM (30°-60°)	222.4	6.6	B1/1000		
BH (60°-80°)	34.1	1.0	B0/110		G0/110
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1482.3	1482.3	1482.3	1482.3	1482.3	1482.3	1482.3	1482.3	1482.3	1482.3	1482.3
2.5°	1568.7	1552.4	1553.7	1548.0	1540.5	1546.2	1521.7	1527.4	1526.8	1493.6	1471.7
5°	1529.3	1546.8	1528.6	1543.6	1529.3	1544.9	1529.9	1518.6	1500.5	1476.1	1435.4
7.5°	1462.3	1445.4	1450.4	1469.2	1472.3	1507.4	1488.6	1503.0	1495.5	1447.3	1391.6
10°	1327.8	1324.0	1349.0	1374.1	1404.7	1442.3	1456.7	1448.5	1442.9	1424.8	1350.3
12.5°	1224.5	1235.2	1234.5	1275.8	1327.8	1349.0	1386.6	1385.3	1416.6	1382.8	1311.5
15°	1126.3	1131.9	1158.2	1183.9	1241.4	1302.1	1348.4	1354.7	1392.2	1368.4	1281.5
17.5°	1066.2	1058.1	1078.7	1109.4	1168.2	1247.7	1299.0	1314.0	1365.3	1360.3	1247.1
20°	1006.8	1006.8	1023.7	1060.0	1113.8	1203.3	1294.6	1290.2	1365.3	1350.9	1210.1
22.5°	986.8	996.8	1001.2	1028.7	1092.5	1169.5	1275.8	1284.0	1376.0	1346.5	1193.9
25°	1014.3	1001.2	1002.4	1024.3	1084.4	1153.2	1262.1	1280.2	1395.4	1368.4	1180.7
27.5°	1018.7	1031.8	1035.6	1050.6	1090.6	1158.2	1296.5	1333.4	1443.5	1419.8	1184.5
30°	1056.8	1070.0	1069.4	1095.0	1122.5	1198.9	1373.5	1381.0	1543.0	1484.2	1207.6
32.5°	1103.1	1116.9	1121.3	1151.3	1173.2	1273.3	1467.3	1486.7	1638.8	1585.6	1268.3
35°	1160.7	1155.7	1175.7	1205.8	1252.7	1382.2	1581.8	1614.4	1742.0	1717.0	1330.9
37.5°	1232.7	1226.4	1245.8	1294.6	1358.4	1511.1	1687.6	1708.8	1817.1	1839.0	1446.7
40°	1283.3	1285.9	1344.7	1410.4	1477.9	1633.8	1754.5	1775.2	1869.6	1952.9	1534.3
42.5°	1367.8	1383.5	1454.2	1534.3	1605.0	1725.7	1809.0	1829.0	1894.1	2044.2	1652.5
45°	1490.5	1483.6	1561.8	1651.3	1729.5	1821.5	1873.4	1866.5	1908.4	2135.0	1727.0
47.5°	1648.1	1649.4	1701.3	1777.7	1859.0	1904.7	1945.4	1921.0	1938.5	2230.7	1826.5
50°	1755.8	1765.2	1807.1	1885.3	1926.0	1996.0	2048.0	2033.0	2027.3	2288.3	1889.0
52.5°	1783.3	1811.5	1834.0	1931.6	2026.7	2137.5	2203.8	2235.7	2135.6	2307.7	1968.5
55°	1575.6	1600.6	1680.1	1814.0	2064.9	2361.5	2452.8	2453.4	2277.0	2394.0	2024.2
57.5°	1259.6	1208.9	1257.7	1399.7	1745.8	2352.1	2574.2	2544.8	2347.7	2343.3	1976.0
60°	871.0	858.5	861.6	917.9	1208.3	1870.9	2293.9	2332.1	2161.9	2031.1	1564.3
62.5°	690.2	679.5	665.8	659.5	750.2	1165.7	1618.1	1671.9	1511.7	1317.1	927.3
65°	540.6	534.4	536.2	561.3	560.6	661.4	884.8	862.9	690.8	510.6	291.6
67.5°	364.8	374.2	381.7	457.4	496.2	460.5	427.4	414.9	224.6	94.5	64.4
70°	205.2	206.5	214.6	286.0	376.7	357.3	294.7	294.7	112.0	34.4	36.9
72.5°	112.0	108.2	100.7	123.3	167.7	170.2	131.4	114.5	33.2	22.5	20.6
75°	54.4	53.8	46.3	38.2	36.3	30.0	23.2	21.3	15.0	14.4	12.5
77.5°	11.3	10.6	5.6	5.6	6.3	6.9	8.8	8.8	10.6	10.6	8.8
80°	0.0	0.0	0.6	2.5	4.4	6.3	7.5	7.5	8.8	8.8	6.9
82.5°	0.0	0.0	0.6	1.9	3.8	5.6	6.9	7.5	8.8	9.4	7.5
85°	0.0	0.0	0.0	1.3	3.1	4.4	3.8	3.8	3.1	2.5	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1482.3	1482.3	1482.3	1482.3	1482.3	1482.3	1482.3	1482.3	1482.3	1482.3	1482.3
2.5°	1460.4	1459.2	1430.4	1414.1	1384.7	1359.1	1338.4	1323.4	1323.4	1314.0	1305.2
5°	1419.1	1408.5	1347.2	1307.8	1252.1	1210.8	1182.6	1160.7	1126.3	1135.7	1098.8
7.5°	1367.8	1340.9	1259.6	1199.5	1122.5	1063.7	1003.7	950.5	899.2	876.0	888.5
10°	1312.8	1265.8	1156.3	1061.2	965.5	857.9	787.8	702.7	650.1	647.0	633.2
12.5°	1254.6	1201.4	1068.1	936.7	810.9	681.4	574.4	494.9	459.3	419.9	427.4
15°	1210.8	1131.9	969.9	811.6	644.5	513.7	406.1	344.8	311.0	301.6	298.5
17.5°	1163.2	1078.7	869.7	678.3	505.6	369.8	292.2	262.8	249.7	249.7	247.8
20°	1113.8	1018.7	770.3	554.4	379.2	275.9	234.0	224.6	224.0	223.4	223.4
22.5°	1081.2	949.8	680.2	440.5	286.0	220.9	203.4	199.6	202.1	209.6	209.6
25°	1046.8	883.5	580.7	339.8	221.5	189.6	179.6	182.1	188.3	195.2	192.7
27.5°	1011.8	840.3	486.8	266.6	181.5	165.8	162.1	167.7	174.6	180.8	179.0
30°	1003.7	794.0	398.0	202.1	155.8	144.5	147.0	152.0	158.9	161.4	163.9
32.5°	1016.2	757.7	326.0	165.8	135.8	132.7	132.7	135.2	139.5	145.2	143.3
35°	1051.8	737.1	257.8	143.9	124.5	121.4	120.8	123.3	125.8	127.6	125.8
37.5°	1106.3	720.8	210.9	127.6	117.0	112.0	110.8	110.1	112.6	113.3	114.5
40°	1175.7	729.6	179.0	117.6	109.5	103.9	100.1	100.1	100.1	102.0	102.6
42.5°	1250.8	741.5	154.6	112.0	102.6	95.7	92.0	90.7	92.0	94.5	93.9
45°	1329.7	764.6	138.9	103.2	96.4	87.6	82.6	81.3	84.5	89.5	88.9
47.5°	1403.5	797.8	127.0	97.6	90.1	82.0	75.7	74.5	80.1	87.0	87.6
50°	1477.3	855.4	122.6	93.2	85.7	76.3	70.7	69.5	75.7	84.5	86.3
52.5°	1562.4	917.3	119.5	87.6	80.7	72.0	65.7	64.4	71.3	82.6	83.2
55°	1618.1	969.9	117.0	77.6	71.3	65.1	60.1	59.4	67.0	77.0	79.5
57.5°	1553.0	896.7	108.2	67.6	60.7	57.6	53.2	53.2	59.4	68.8	70.7
60°	1177.6	590.1	77.0	54.4	51.3	49.4	47.6	47.6	52.6	59.4	60.1
62.5°	689.5	317.9	49.4	43.8	43.8	41.9	38.8	38.8	43.8	47.6	48.2
65°	204.6	102.0	40.0	37.5	36.9	33.8	30.7	30.0	33.8	35.7	35.0
67.5°	58.8	46.9	33.2	31.3	30.7	25.7	23.8	23.2	23.8	22.5	21.9
70°	35.0	31.9	25.7	26.3	23.2	18.8	16.9	16.3	15.0	13.1	11.9
72.5°	19.4	19.4	18.8	20.0	16.3	12.5	10.6	8.8	6.9	5.6	5.0
75°	11.9	12.5	13.1	13.8	10.6	8.1	6.9	4.4	2.5	1.3	1.3
77.5°	8.1	8.8	9.4	10.0	8.8	7.5	5.6	3.1	0.6	0.0	0.0
80°	6.3	6.9	8.1	8.8	9.4	10.0	7.5	3.1	0.6	0.0	0.0
82.5°	6.9	7.5	9.4	8.8	8.8	8.8	6.9	3.1	0.6	0.0	0.0
85°	1.3	1.9	3.1	3.1	4.4	5.6	4.4	1.3	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)