

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: P526893

Luminaire Tested: **GALN-SA1D-760-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526893
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-760-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4760 lumens
Efficiency: N/A
Efficacy: 73.2 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

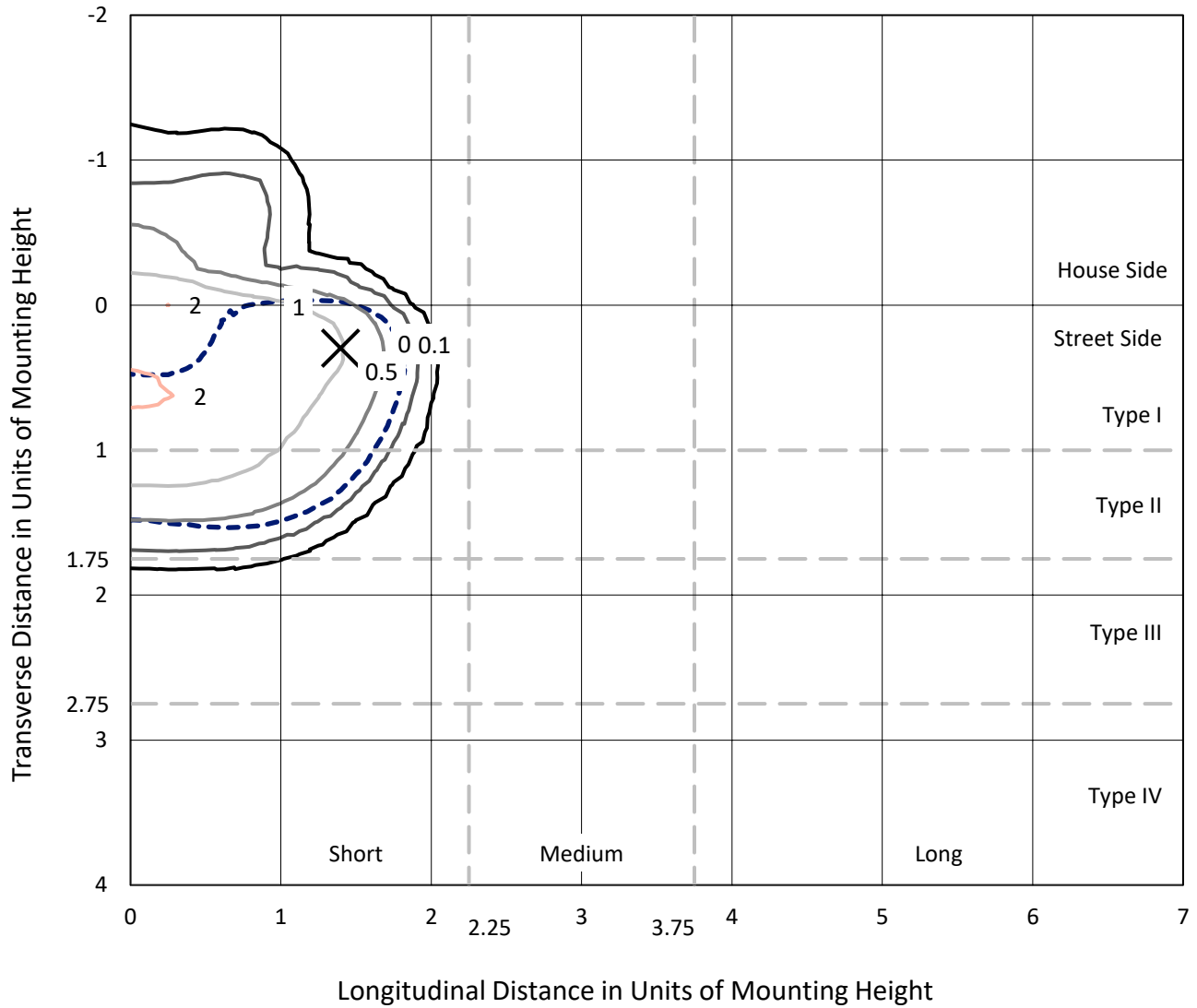
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

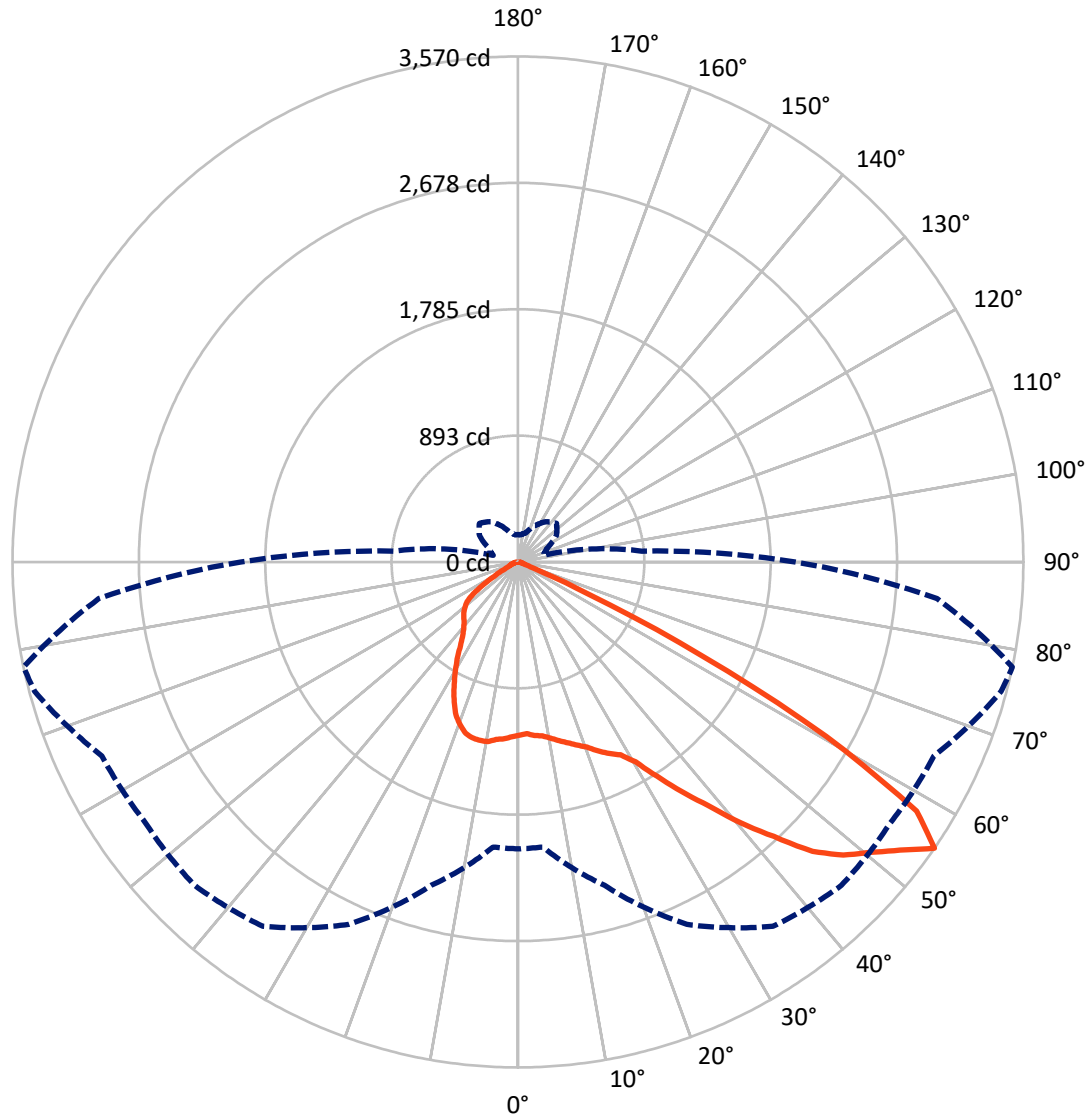
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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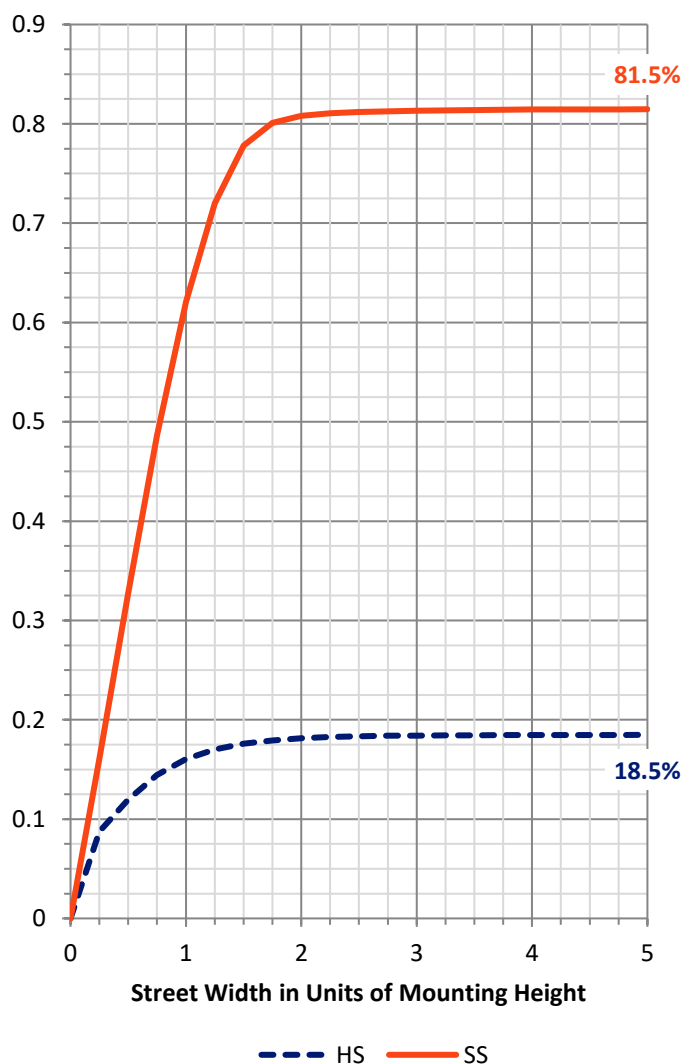
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	884.1	0.0	884.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	3875.9	0.0	3875.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	4760.0	0.0	4760.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	2.3
10°-20°	288.8	6.1
20°-30°	506.2	10.6
30°-40°	834.7	17.5
40°-50°	1214.6	25.5
50°-60°	1376.2	28.9
60°-70°	393.5	8.3
70°-80°	30.6	0.6
80°-90°	6.4	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°	4760.0	100.0
0°-180°	4760.0	100.0

Coefficient of Utilization



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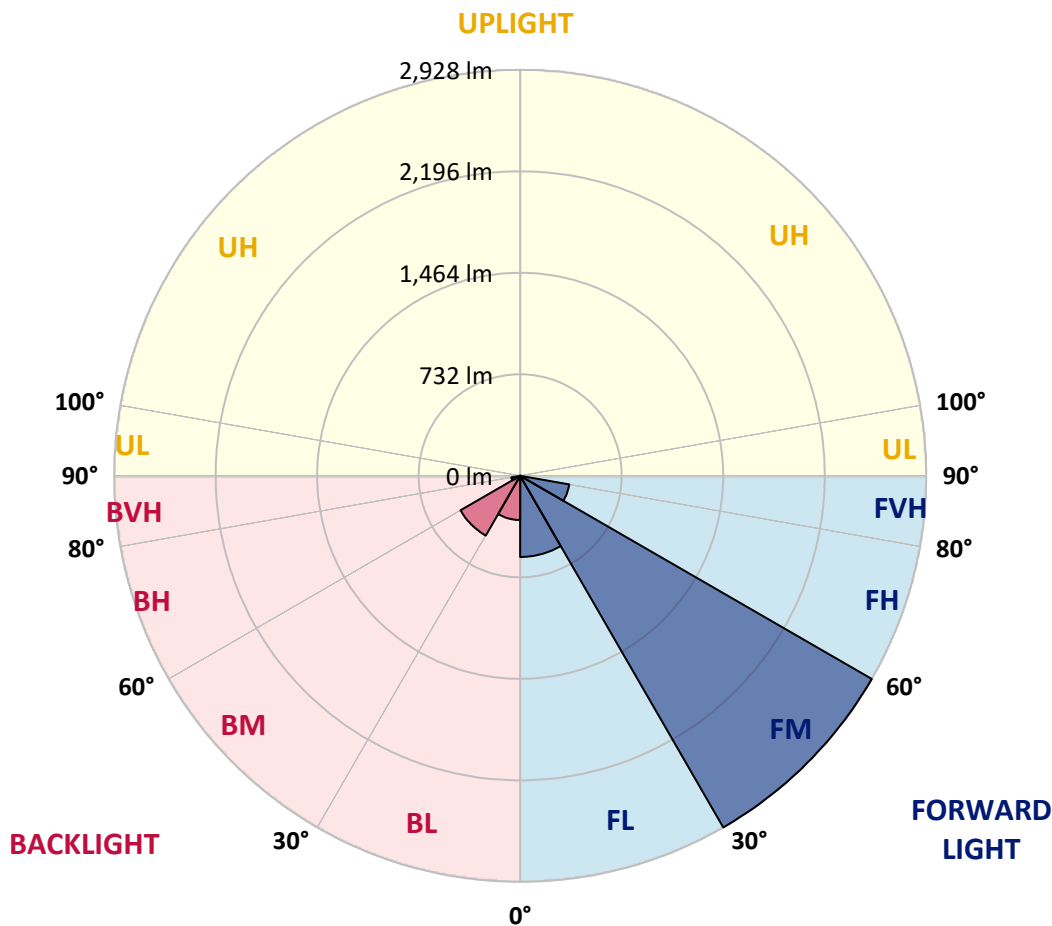
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	585.1	12.3			
FM (30°-60°)	2928.1	61.5			
FH (60°-80°)	359.5	7.6			G0/660
FVH (80°-90°)	3.1	0.1			G0/10
BL (0°-30°)	319.0	6.7	B1/500		
BM (30°-60°)	497.3	10.4	B1/1000		
BH (60°-80°)	64.5	1.4	B0/110		G0/110
BVH (80°-90°)	3.3	0.1			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°	55°	65°	75°	78°	85°
0°	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8
2.5°	1150.6	1161.7	1163.4	1177.0	1176.1	1199.1	1205.9	1206.8	1222.1	1214.4	1234.0
5°	1118.3	1112.3	1109.8	1133.6	1140.4	1160.8	1177.8	1188.1	1219.5	1230.6	1251.0
7.5°	1089.3	1089.3	1091.0	1112.3	1109.8	1136.1	1154.0	1185.5	1231.5	1240.8	1265.5
10°	1061.2	1051.0	1063.8	1085.9	1104.7	1116.6	1154.0	1183.8	1237.4	1264.6	1298.7
12.5°	1046.8	1051.9	1053.6	1069.8	1090.2	1125.9	1146.4	1195.7	1280.0	1296.1	1332.7
15°	1137.8	1127.6	1103.0	1088.5	1105.5	1122.5	1173.6	1223.8	1302.1	1325.1	1365.9
17.5°	1243.4	1234.9	1214.4	1175.3	1137.0	1168.5	1208.5	1254.4	1325.9	1360.0	1420.4
20°	1381.2	1367.6	1347.2	1270.6	1237.4	1203.4	1245.9	1300.4	1365.1	1395.7	1457.8
22.5°	1545.5	1545.5	1499.5	1406.8	1337.8	1305.5	1323.4	1354.9	1408.5	1450.2	1511.5
25°	1716.6	1711.4	1669.7	1573.6	1457.0	1418.7	1439.1	1461.2	1475.7	1498.7	1539.5
27.5°	1912.3	1882.5	1829.7	1723.4	1620.4	1546.3	1568.5	1548.9	1531.0	1542.9	1601.7
30°	2045.1	2063.8	1996.5	1894.4	1797.4	1714.9	1719.1	1702.1	1620.4	1637.4	1672.3
32.5°	2182.9	2194.8	2157.4	2101.2	2004.2	1908.0	1873.1	1858.7	1797.4	1805.1	1771.0
35°	2297.8	2320.8	2287.6	2262.9	2234.8	2157.4	2061.2	2108.0	2009.3	1990.6	1902.1
37.5°	2403.3	2396.5	2435.7	2410.2	2404.2	2349.7	2244.2	2253.6	2187.2	2182.9	2080.8
40°	2497.8	2499.5	2553.1	2565.0	2541.2	2444.2	2291.0	2365.0	2418.7	2423.8	2292.7
42.5°	2576.1	2599.1	2645.0	2741.2	2705.5	2543.8	2339.5	2420.4	2619.5	2651.0	2493.6
45°	2644.2	2691.0	2748.0	2834.0	2813.5	2685.0	2460.4	2534.4	2834.0	2916.5	2682.5
47.5°	2648.4	2709.7	2771.8	2899.5	2925.0	2760.8	2585.5	2714.8	3004.2	3093.5	2820.4
50°	2631.4	2663.8	2788.0	2926.7	2984.6	2884.2	2760.8	2866.3	3169.3	3225.5	2890.1
52.5°	2429.7	2454.4	2703.8	2952.3	3091.8	3023.8	2993.1	3077.4	3337.8	3379.5	2955.7
55°	2025.5	2021.2	2364.2	2823.8	3141.2	3230.6	3211.8	3241.6	3532.7	3570.1	2971.8
57.5°	1385.5	1462.9	1759.1	2351.4	2839.1	3182.0	3201.6	3152.3	3305.4	3319.9	2590.6
60°	747.2	779.6	1017.8	1569.3	2161.6	2593.1	2644.2	2554.8	2542.9	2502.1	1849.3
62.5°	297.0	313.2	448.5	777.0	1177.8	1576.1	1685.9	1649.3	1571.0	1463.8	957.4
65°	141.3	151.5	223.0	363.4	522.5	657.0	766.8	800.8	590.6	531.9	315.7
67.5°	96.2	103.8	162.5	207.7	186.4	194.9	253.6	235.7	138.7	118.3	87.7
70°	73.2	78.3	130.2	141.3	83.4	58.7	65.5	61.3	57.0	57.9	57.0
72.5°	51.9	56.2	95.3	83.4	36.6	27.2	34.9	41.7	41.7	41.7	40.9
75°	31.5	35.7	55.3	32.3	14.5	14.5	22.1	28.1	29.8	30.6	28.9
77.5°	16.2	20.4	18.7	9.4	9.4	11.1	16.2	19.6	21.3	21.3	20.4
80°	3.4	3.4	3.4	5.1	9.4	11.9	16.2	17.9	20.4	20.4	18.7
82.5°	0.0	0.9	2.6	5.1	8.5	11.1	15.3	17.9	20.4	21.3	19.6
85°	0.0	0.9	1.7	3.4	6.0	6.8	6.0	5.1	5.1	5.1	5.1
87.5°	0.0	0.0	0.9	0.9	0.9	1.7	1.7	1.7	1.7	1.7	1.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8
2.5°	1235.7	1238.3	1234.0	1233.2	1229.8	1240.0	1215.3	1209.3	1224.6	1210.2	1213.6
5°	1251.9	1257.8	1250.2	1237.4	1218.7	1189.8	1165.1	1132.7	1117.4	1106.4	1104.7
7.5°	1263.8	1268.1	1260.4	1219.5	1163.4	1090.2	1035.7	995.7	964.2	954.9	939.6
10°	1312.3	1313.2	1274.9	1184.7	1074.9	978.7	895.3	834.0	802.5	783.0	774.4
12.5°	1344.6	1342.9	1265.5	1115.7	969.3	841.7	746.4	672.3	643.4	634.0	628.1
15°	1385.5	1376.1	1243.4	1045.1	833.2	695.3	609.3	558.3	555.7	549.8	555.7
17.5°	1417.8	1391.5	1211.0	916.6	703.0	572.8	516.6	520.0	526.8	532.8	533.6
20°	1470.6	1416.1	1137.0	804.2	582.1	491.1	490.2	505.5	522.5	529.3	536.2
22.5°	1510.6	1426.3	1057.8	684.2	483.4	457.9	472.3	495.3	508.1	514.9	525.1
25°	1525.1	1398.3	952.3	564.2	435.7	442.5	464.7	480.0	496.2	503.8	499.6
27.5°	1539.5	1383.8	826.4	464.7	410.2	432.3	451.1	466.4	471.5	481.7	488.5
30°	1574.4	1333.6	713.2	401.7	397.4	425.5	439.1	444.2	457.9	463.8	463.8
32.5°	1602.5	1314.0	593.2	371.9	395.7	428.9	430.6	430.6	432.3	428.1	426.4
35°	1660.4	1246.8	485.9	354.0	394.9	429.8	434.0	419.6	380.4	365.1	360.8
37.5°	1731.9	1203.4	406.8	349.8	400.8	440.0	446.8	392.3	341.3	316.6	312.3
40°	1818.7	1172.7	354.9	348.1	414.5	463.8	443.4	371.1	304.7	268.9	267.2
42.5°	1920.0	1144.7	320.0	347.2	431.5	488.5	440.0	353.2	267.2	243.4	246.8
45°	2000.8	1129.3	296.2	341.3	437.4	503.0	442.5	321.7	251.9	236.6	238.3
47.5°	2063.8	1097.0	276.6	331.1	436.6	508.1	419.6	308.9	244.2	248.5	252.8
50°	2065.5	1053.6	251.9	308.9	423.8	498.7	393.2	297.0	242.5	260.4	268.9
52.5°	2042.5	992.3	225.5	277.4	394.0	466.4	369.4	291.9	234.9	233.2	243.4
55°	1960.8	877.4	181.3	224.7	332.8	384.7	348.1	282.5	211.9	192.3	194.0
57.5°	1584.6	628.9	133.6	160.8	235.7	281.7	314.0	278.3	190.6	163.4	164.3
60°	981.3	356.6	97.9	109.8	145.5	171.1	254.5	258.7	170.2	137.9	136.2
62.5°	503.8	176.2	75.7	77.4	89.4	100.4	174.5	217.0	154.0	131.1	131.1
65°	168.5	86.8	66.4	59.6	59.6	62.1	105.5	150.6	130.2	109.8	109.8
67.5°	72.3	64.7	57.9	51.9	47.7	45.1	59.6	87.7	97.0	83.4	80.0
70°	56.2	54.5	50.2	43.4	37.4	34.0	34.9	45.1	55.3	53.6	51.9
72.5°	41.7	41.7	40.0	34.0	28.9	24.7	23.0	23.8	26.4	27.2	28.1
75°	28.9	29.8	29.8	26.4	21.3	17.9	15.3	12.8	10.2	8.5	7.7
77.5°	19.6	20.4	22.1	19.6	16.2	11.9	9.4	6.8	4.3	1.7	1.7
80°	17.0	19.6	21.3	19.6	17.0	12.8	9.4	5.1	2.6	0.0	0.0
82.5°	17.9	19.6	22.1	18.7	16.2	11.9	9.4	6.0	2.6	0.9	0.0
85°	4.3	4.3	5.1	6.0	7.7	8.5	6.8	4.3	2.6	0.9	0.0
87.5°	1.7	1.7	1.7	1.7	1.7	0.9	0.9	0.9	0.9	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)