

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: P527139

Luminaire Tested: **GALN-SA2A-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3946 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

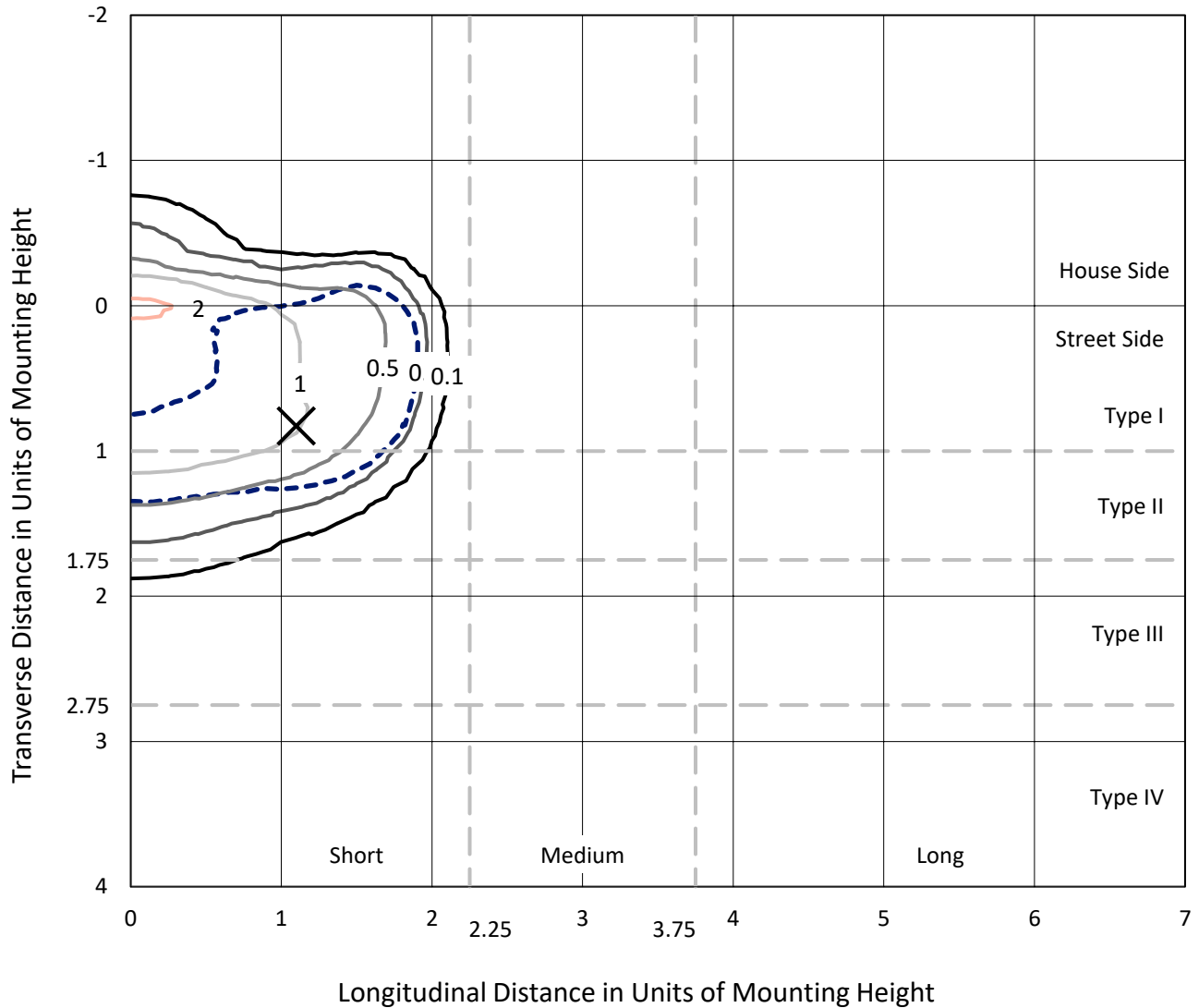
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

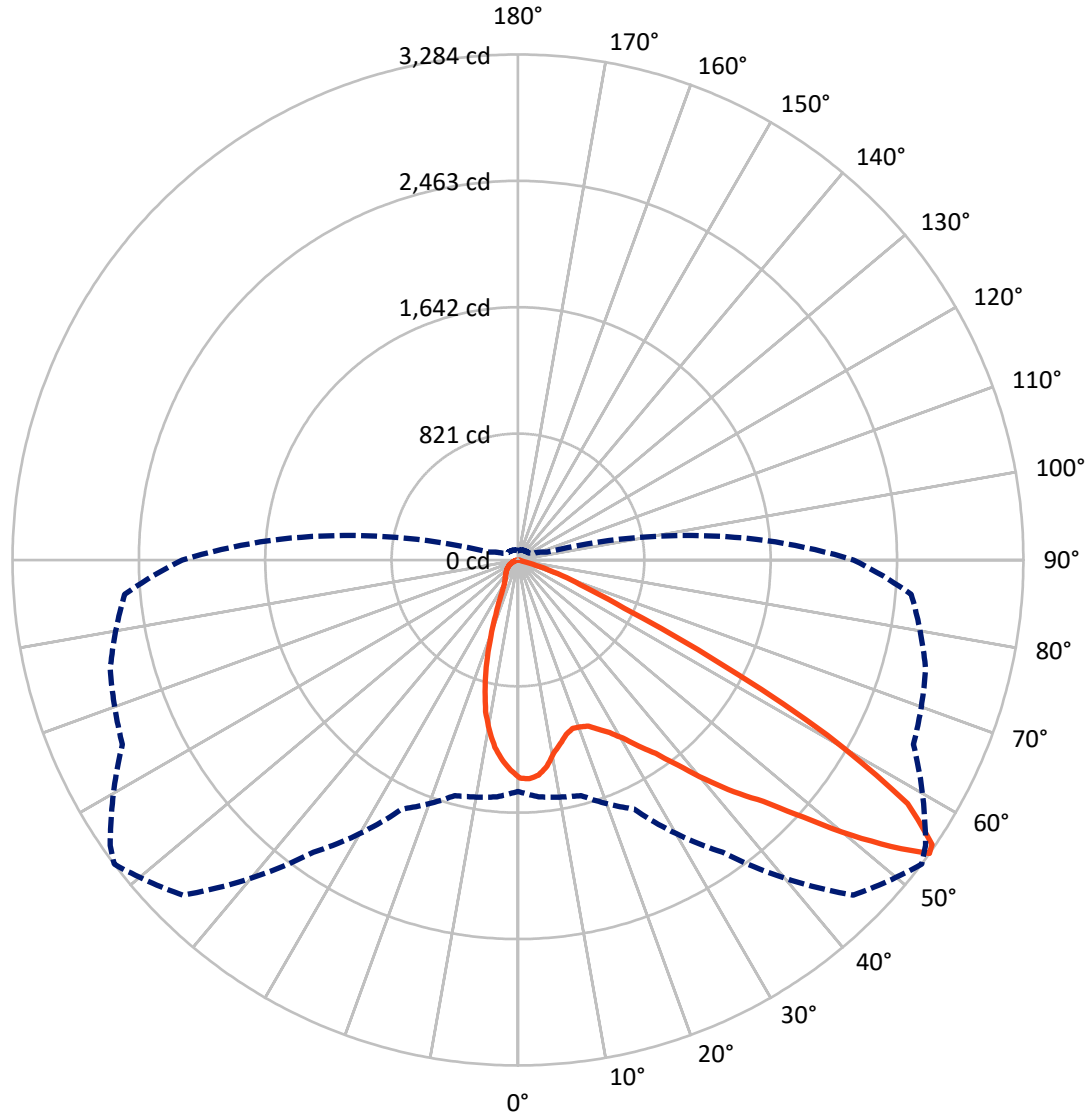
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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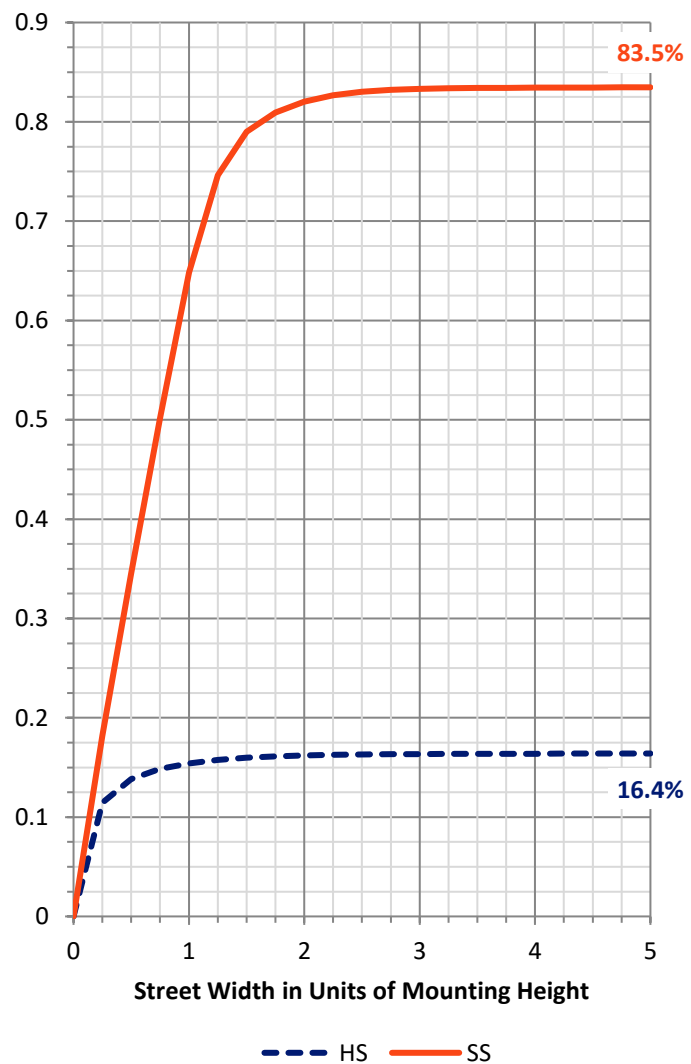
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	652.9	0.0	652.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3293.1	0.0	3293.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	3946.0	0.0	3946.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	3.1
10°-20°	278.8	7.1
20°-30°	396.2	10.0
30°-40°	611.5	15.5
40°-50°	958.8	24.3
50°-60°	1113.7	28.2
60°-70°	420.8	10.7
70°-80°	40.0	1.0
80°-90°	4.5	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°	3946.0	100.0
0°-180°	3946.0	100.0



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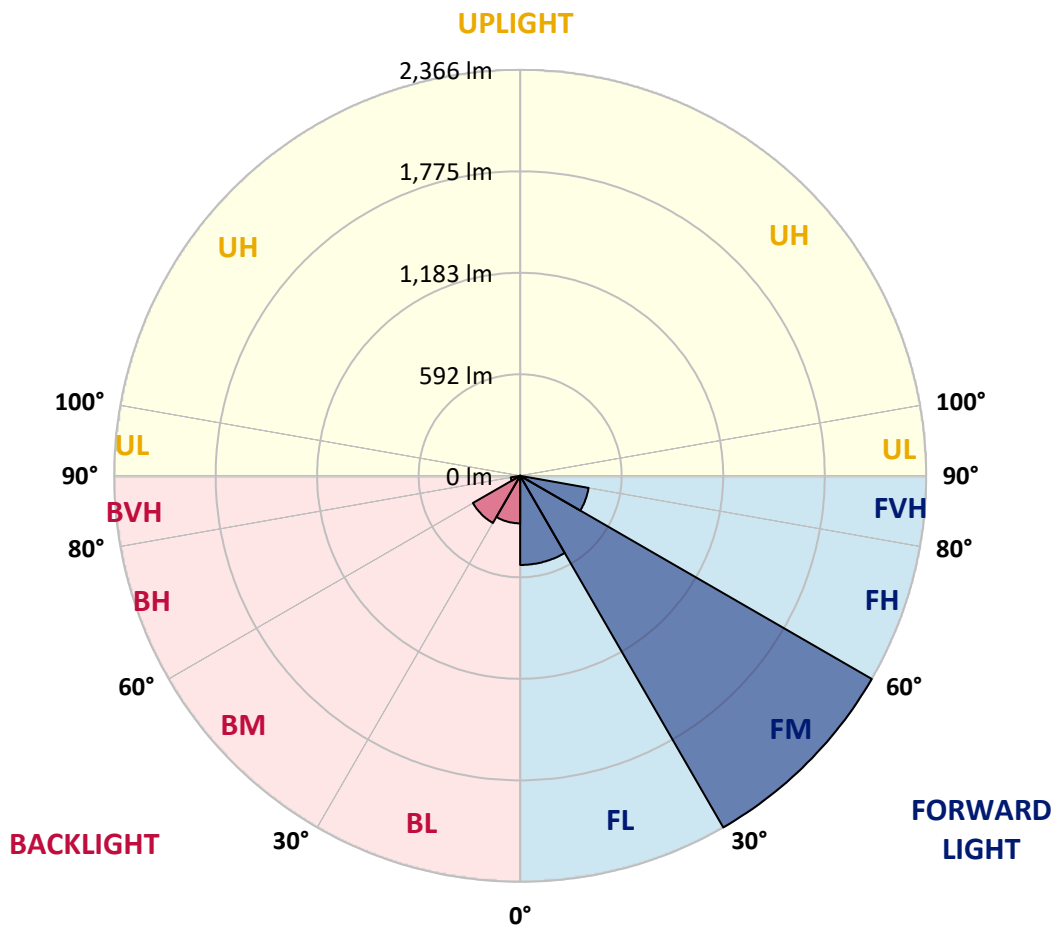
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	519.6	13.2			
FM (30°-60°)	2366.3	60.0			
FH (60°-80°)	404.9	10.3			G0/660
FVH (80°-90°)	2.3	0.1			G0/10
BL (0°-30°)	277.1	7.0	B1/500		
BM (30°-60°)	317.7	8.1	B1/1000		
BH (60°-80°)	55.9	1.4	B0/110		G0/110
BVH (80°-90°)	2.2	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°	53°	55°	65°	75°	85°
0°	1417.3	1417.3	1417.3	1417.3	1417.3	1417.3	1417.3	1417.3	1417.3	1417.3	1417.3
2.5°	1410.0	1397.5	1410.0	1411.5	1420.3	1428.4	1423.2	1435.0	1428.4	1421.0	1418.8
5°	1296.0	1312.9	1313.7	1340.1	1334.3	1382.8	1404.1	1398.2	1434.2	1432.0	1426.9
7.5°	1193.9	1187.2	1196.1	1226.9	1265.9	1321.8	1352.6	1351.9	1403.4	1440.1	1436.5
10°	1099.0	1098.3	1116.7	1140.9	1174.0	1232.8	1275.5	1296.8	1376.9	1432.8	1440.9
12.5°	1035.1	1032.1	1052.0	1071.8	1124.0	1169.6	1224.0	1234.3	1326.2	1407.0	1420.3
15°	993.2	999.8	1001.3	1039.5	1072.6	1132.8	1175.5	1196.8	1302.7	1386.5	1437.2
17.5°	985.8	994.6	995.4	1027.0	1062.3	1113.0	1150.5	1179.2	1282.8	1396.8	1437.9
20°	1000.5	995.4	999.8	1019.6	1054.2	1102.7	1157.1	1166.7	1276.2	1401.9	1446.0
22.5°	1042.4	1040.9	1029.9	1046.1	1070.4	1121.1	1172.5	1187.2	1295.3	1428.4	1452.6
25°	1088.7	1096.8	1086.5	1084.3	1101.2	1151.2	1219.6	1238.7	1359.3	1476.1	1473.2
27.5°	1175.5	1167.4	1167.4	1157.1	1152.7	1176.9	1270.3	1301.9	1430.6	1537.9	1496.7
30°	1258.5	1267.4	1260.8	1264.4	1235.0	1232.8	1342.4	1381.3	1557.0	1632.0	1546.7
32.5°	1390.1	1378.4	1389.4	1379.8	1340.9	1301.2	1440.1	1480.6	1709.9	1740.1	1621.7
35°	1499.7	1494.5	1541.6	1540.1	1476.9	1437.9	1543.8	1604.1	1816.5	1869.4	1709.9
37.5°	1655.5	1646.0	1699.6	1725.4	1668.8	1610.7	1692.3	1762.1	1915.8	1973.1	1800.3
40°	1815.8	1840.0	1912.1	1954.7	1894.4	1817.2	1873.9	1895.2	1981.9	2040.7	1862.1
42.5°	2018.7	2054.0	2127.5	2164.2	2159.1	2075.3	2058.4	2057.6	2029.7	2021.6	1907.7
45°	2213.5	2200.3	2313.5	2393.6	2458.3	2434.0	2236.3	2214.2	2105.4	2050.3	1919.4
47.5°	2298.8	2294.4	2371.5	2514.2	2734.7	2764.8	2495.0	2409.8	2233.3	2170.8	1983.4
50°	2188.5	2211.3	2287.7	2445.8	2783.9	3014.0	2812.6	2697.9	2382.6	2317.9	2134.8
52.5°	1828.3	1843.7	1916.5	2117.2	2616.3	3161.1	3117.0	3050.8	2656.8	2549.4	2398.7
54°	1503.3	1544.5	1584.2	1785.6	2317.9	3079.5	3283.8	3233.1	2835.4	2742.0	2564.9
55°	1309.3	1333.5	1362.2	1562.9	2111.3	2941.3	3264.7	3269.1	2955.2	2802.3	2676.6
57.5°	956.4	973.3	943.9	1032.9	1449.7	2388.4	2986.1	3105.2	3117.0	2892.7	2745.0
60°	730.7	738.1	705.0	719.0	901.3	1639.3	2309.8	2453.1	2811.9	2528.1	2325.2
62.5°	566.8	568.3	567.5	591.8	621.2	964.5	1444.5	1571.7	1938.5	1795.2	1579.1
65°	417.6	410.9	422.7	496.2	530.0	606.5	760.9	853.5	1053.4	889.5	635.9
67.5°	270.5	272.7	284.5	369.0	454.3	465.3	468.3	460.9	461.7	254.4	159.5
70°	162.5	166.1	162.5	208.8	324.9	333.8	305.1	297.7	232.3	60.3	59.5
72.5°	96.3	91.2	81.6	89.7	135.3	161.7	145.6	144.8	91.2	35.3	35.3
75°	40.4	36.8	30.1	27.2	36.0	34.6	34.6	30.9	24.3	23.5	22.1
77.5°	8.1	8.1	5.9	6.6	8.8	10.3	12.5	12.5	14.7	14.7	14.0
80°	0.0	0.7	2.2	4.4	6.6	9.6	11.0	11.0	12.5	12.5	10.3
82.5°	0.0	0.7	2.2	4.4	5.9	8.8	11.0	11.0	12.5	13.2	11.0
85°	0.0	0.7	2.2	3.7	5.9	7.4	7.4	6.6	5.1	4.4	2.9
87.5°	0.0	0.0	0.7	1.5	0.7	1.5	1.5	1.5	1.5	1.5	1.5
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°	1417.3	1417.3	1417.3	1417.3	1417.3	1417.3	1417.3	1417.3	1417.3	1417.3	1417.3
2.5°	1424.0	1423.2	1405.6	1376.9	1370.3	1346.0	1343.1	1328.4	1336.5	1309.3	1306.3
5°	1412.2	1403.4	1382.1	1363.7	1310.0	1271.8	1241.6	1204.9	1183.6	1187.2	1173.3
7.5°	1429.1	1406.3	1368.8	1304.9	1239.4	1172.5	1136.5	1061.5	1034.3	993.9	988.0
10°	1411.5	1394.5	1336.5	1230.6	1140.2	1043.9	959.3	876.3	813.1	785.9	780.0
12.5°	1410.0	1380.6	1283.5	1165.9	1035.1	896.9	774.1	670.4	608.0	572.7	564.6
15°	1387.2	1351.9	1224.0	1065.9	885.1	713.1	579.3	479.3	431.5	410.9	416.8
17.5°	1389.4	1336.5	1164.5	960.1	737.3	523.4	395.5	344.0	331.5	336.7	336.7
20°	1387.2	1301.9	1092.4	838.1	564.6	363.2	290.4	272.0	280.1	296.3	292.6
22.5°	1375.4	1285.7	1026.2	709.4	415.4	269.1	233.0	233.8	246.3	266.1	270.5
25°	1384.3	1249.7	942.4	579.3	302.9	214.7	202.2	207.3	220.5	235.2	238.2
27.5°	1377.6	1224.0	855.0	449.9	221.3	184.5	183.8	189.7	195.5	206.6	206.6
30°	1385.0	1200.5	768.9	334.5	182.3	169.1	166.1	170.6	176.4	178.6	177.9
32.5°	1412.2	1182.8	669.7	249.9	161.0	154.4	154.4	154.4	153.6	156.6	157.3
35°	1471.7	1185.8	582.2	193.3	147.0	141.9	139.7	136.7	135.3	136.7	137.5
37.5°	1536.4	1184.3	491.8	164.7	136.7	132.3	127.2	122.8	122.0	123.5	121.3
40°	1565.1	1198.3	408.0	147.8	127.2	122.0	113.9	110.3	111.0	112.5	111.0
42.5°	1604.1	1202.7	353.6	134.5	118.4	110.3	105.1	100.7	100.0	102.2	101.4
45°	1603.3	1177.7	296.3	127.2	110.3	101.4	94.8	91.2	91.2	92.6	93.4
47.5°	1650.4	1174.0	254.4	120.6	104.4	95.6	87.5	84.5	83.8	83.8	82.3
50°	1759.9	1225.5	222.0	113.2	97.0	89.0	82.3	78.7	75.7	74.2	73.5
52.5°	1973.8	1385.7	197.0	104.4	89.0	82.3	76.5	73.5	69.8	66.2	65.4
54°	2181.1	1551.1	195.5	97.0	82.3	77.9	72.8	71.3	66.9	61.8	60.3
55°	2274.5	1647.4	200.7	91.2	77.9	75.0	70.6	69.1	64.7	58.8	58.1
57.5°	2351.7	1684.9	197.8	75.7	70.6	69.8	66.2	64.0	58.8	50.7	49.3
60°	1893.0	1274.0	141.9	66.9	64.7	63.2	60.3	58.8	52.2	43.4	42.6
62.5°	1196.1	732.9	90.4	58.8	56.6	54.4	50.7	49.3	43.4	34.6	32.3
65°	509.4	303.6	61.0	52.2	48.5	44.8	41.9	39.7	34.6	25.7	25.0
67.5°	132.3	108.1	50.7	45.6	40.4	35.3	33.1	29.4	23.5	17.6	16.9
70°	59.5	54.4	42.6	38.2	32.3	27.2	24.3	20.6	15.4	11.8	11.0
72.5°	35.3	34.6	32.3	28.7	24.3	20.6	17.6	14.0	10.3	6.6	6.6
75°	22.1	21.3	22.1	19.8	16.9	15.4	13.2	9.6	5.9	2.9	2.9
77.5°	13.2	13.2	13.2	12.5	11.8	11.8	9.6	5.9	2.9	0.7	0.7
80°	10.3	10.3	11.0	10.3	10.3	10.3	8.1	4.4	1.5	0.0	0.0
82.5°	10.3	11.0	12.5	11.8	10.3	8.8	7.4	4.4	1.5	0.0	0.0
85°	2.9	2.2	3.7	5.1	7.4	6.6	5.1	3.7	1.5	0.0	0.0
87.5°	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	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)