

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: P451506

Luminaire Tested: **GALN-SA2B-827-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8234 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

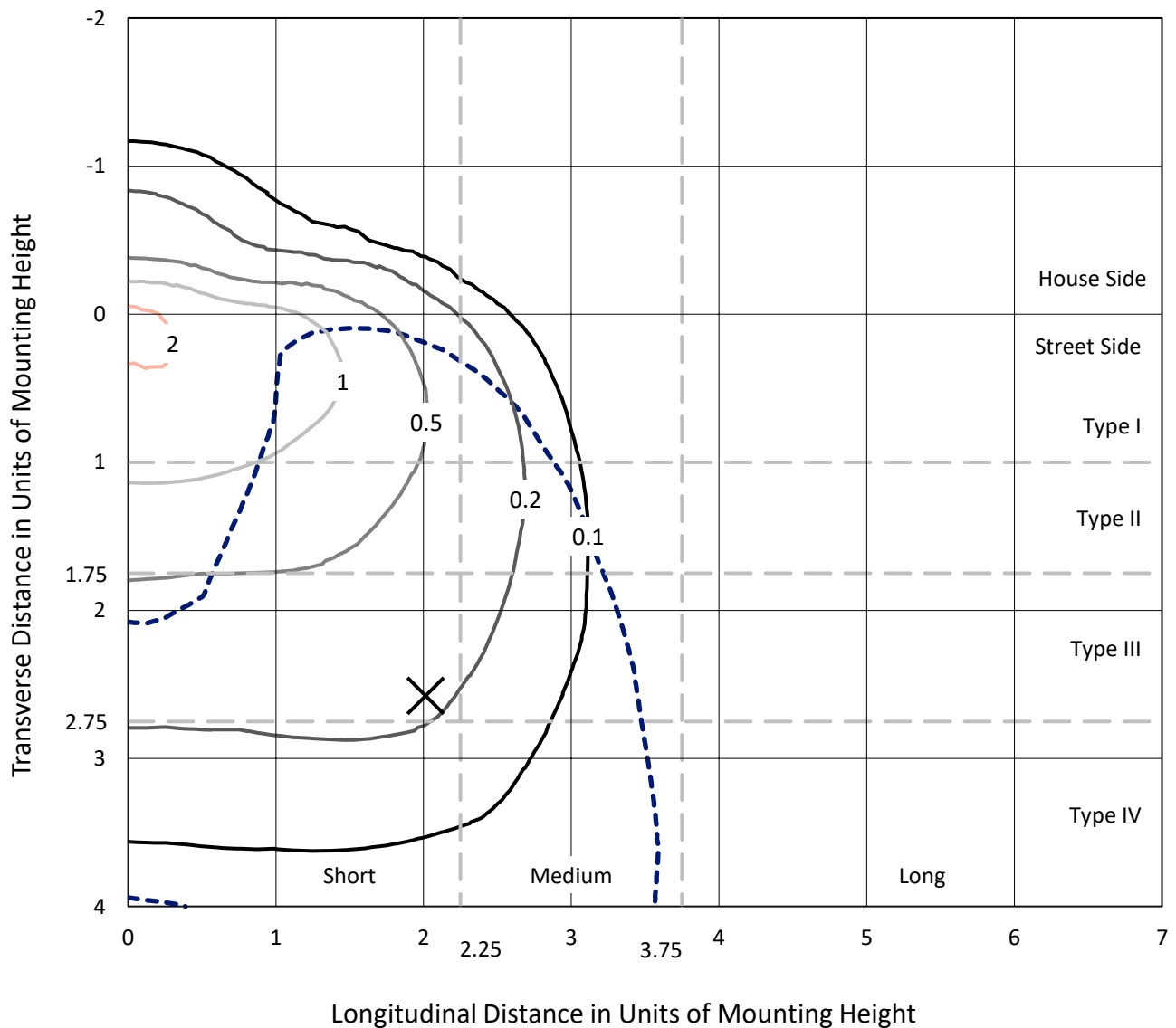
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

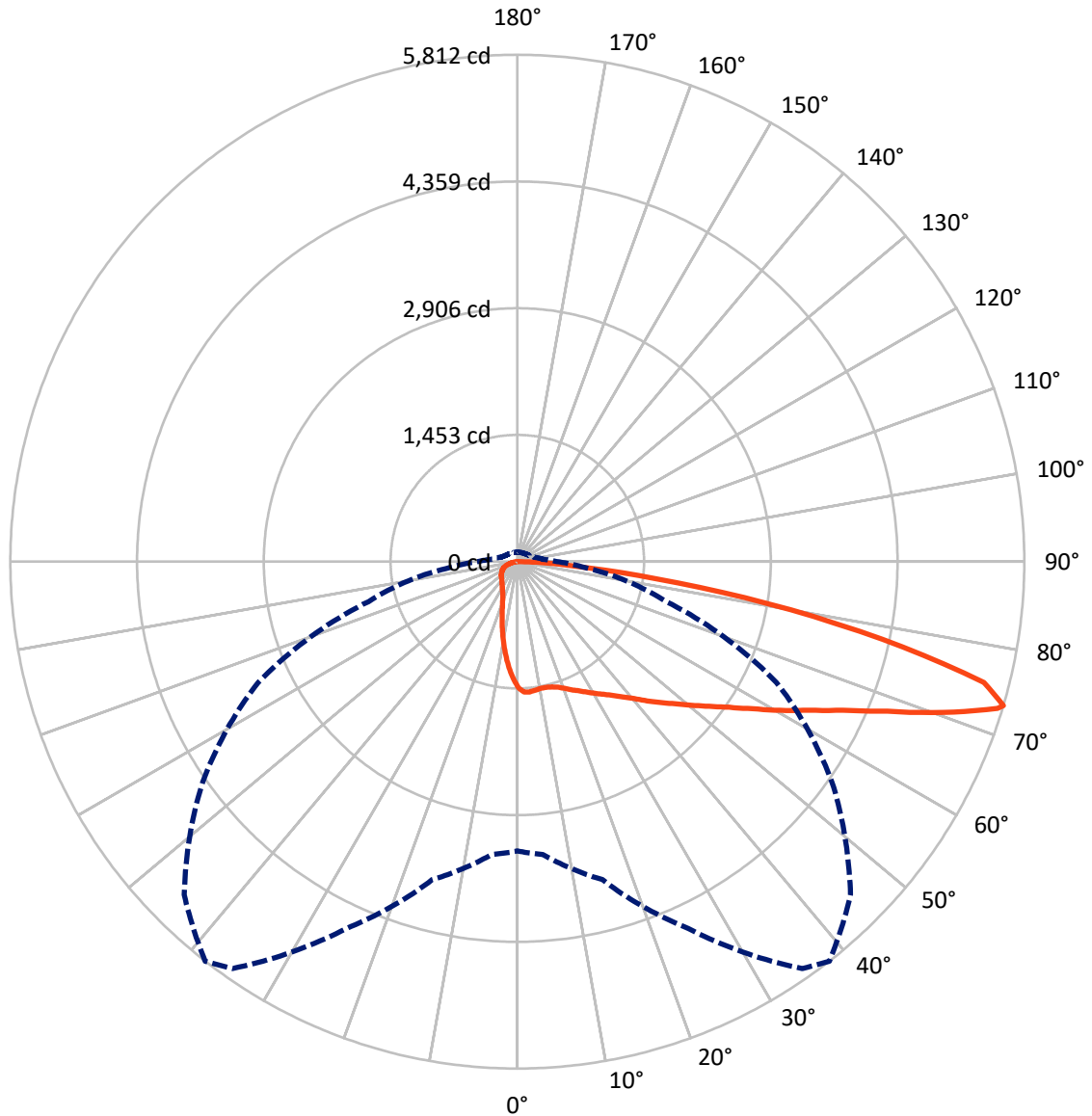
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1106.9	0.0	1106.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	7127.1	0.0	7127.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	8234.0	0.0	8234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	1.5
10°-20°	323.8	3.9
20°-30°	504.2	6.1
30°-40°	739.6	9.0
40°-50°	1097.1	13.3
50°-60°	1554.3	18.9
60°-70°	1971.7	23.9
70°-80°	1641.3	19.9
80°-90°	275.8	3.3
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°	8234.0	100.0
0°-180°	8234.0	100.0

Coefficient of Utilization

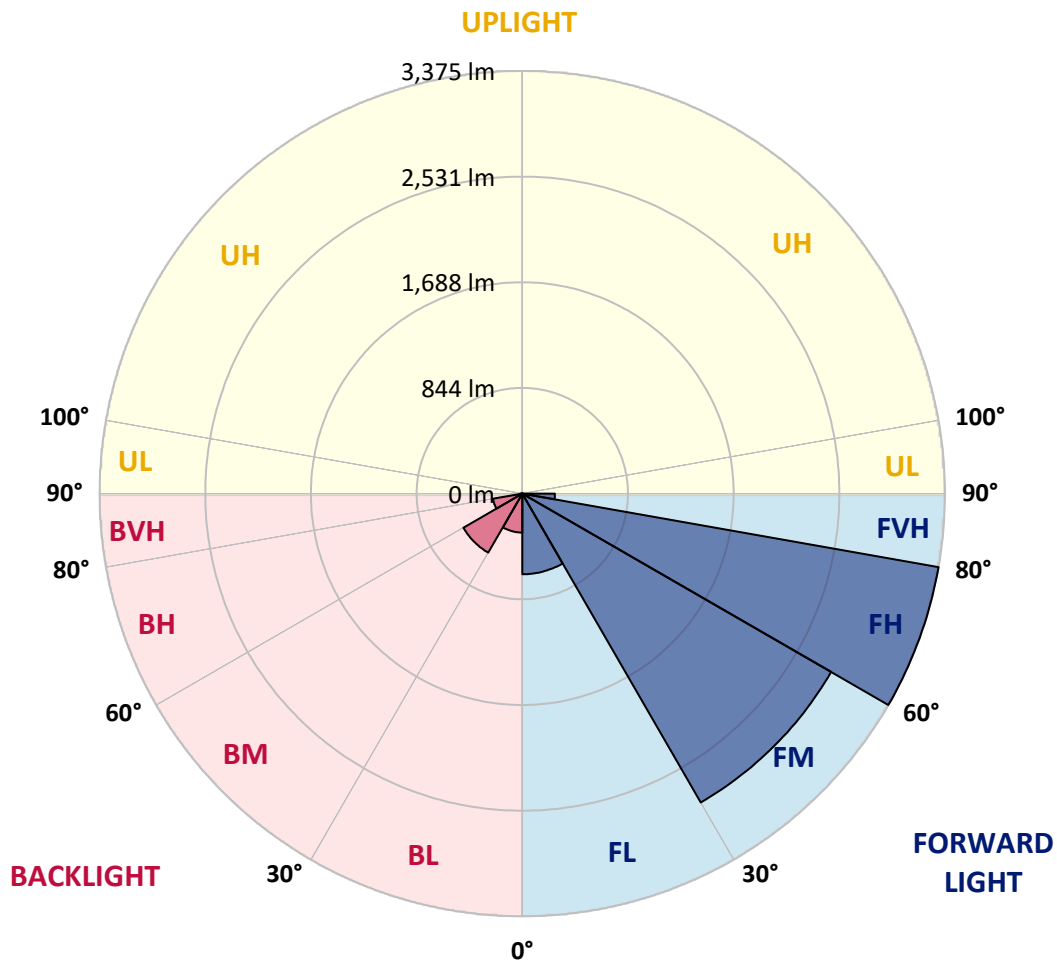


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	643.7	7.8			
FM (30°-60°)	2847.5	34.6			
FH (60°-80°)	3375.1	41.0			G2/5000
FVH (80°-90°)	260.8	3.2			G3/500
BL (0°-30°)	310.6	3.8	B1/500		
BM (30°-60°)	543.4	6.6	B1/1000		
BH (60°-80°)	237.9	2.9	B1/500		G1/500
BVH (80°-90°)	15.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1446.6	1446.6	1446.6	1446.6	1446.6	1446.6	1446.6	1446.6	1446.6	1446.6	1446.6
2.5°	1504.7	1512.1	1508.4	1503.3	1500.0	1496.8	1492.1	1478.7	1468.0	1456.3	1438.2
5°	1515.9	1520.5	1517.3	1510.7	1503.3	1500.0	1491.2	1473.5	1456.3	1436.8	1409.8
7.5°	1509.3	1511.2	1507.5	1499.6	1493.1	1487.0	1476.8	1457.3	1436.3	1412.6	1377.3
10°	1486.1	1493.1	1493.1	1486.6	1480.1	1476.8	1466.6	1448.0	1428.9	1401.9	1360.1
12.5°	1467.0	1474.5	1480.5	1478.7	1478.2	1478.2	1470.3	1456.3	1434.0	1408.4	1358.7
15°	1454.0	1462.8	1475.9	1483.3	1488.0	1489.4	1486.1	1474.0	1451.2	1421.5	1364.3
17.5°	1451.2	1461.9	1485.6	1501.9	1514.0	1513.5	1512.6	1495.9	1470.8	1440.1	1371.2
20°	1463.8	1477.7	1510.7	1536.3	1554.0	1550.7	1545.6	1523.8	1494.5	1460.1	1377.8
22.5°	1501.4	1515.9	1552.1	1580.0	1597.2	1597.2	1581.9	1553.1	1521.9	1483.3	1386.6
25°	1555.4	1571.2	1609.8	1638.1	1646.1	1640.0	1624.7	1589.8	1554.0	1516.8	1405.2
27.5°	1621.4	1640.5	1676.3	1700.0	1697.7	1693.0	1677.2	1632.6	1596.8	1562.8	1436.8
30°	1703.7	1717.7	1754.9	1760.4	1752.1	1751.1	1728.8	1684.2	1650.7	1624.7	1481.9
32.5°	1781.4	1793.9	1823.7	1826.0	1811.1	1813.0	1792.1	1751.1	1732.1	1722.8	1557.7
35°	1863.7	1870.2	1895.8	1893.0	1883.2	1881.8	1873.4	1834.4	1840.4	1857.2	1665.1
37.5°	1932.5	1945.5	1959.9	1962.2	1961.8	1966.4	1972.0	1953.4	1988.3	2040.8	1806.0
40°	1995.7	2006.9	2028.3	2035.7	2053.8	2063.1	2082.2	2082.7	2163.1	2249.6	1979.4
42.5°	2038.5	2057.6	2097.6	2111.0	2155.2	2183.1	2211.5	2241.7	2358.4	2469.5	2184.0
45°	2075.7	2100.8	2167.3	2209.2	2269.1	2303.1	2363.1	2426.3	2594.2	2739.7	2391.9
47.5°	2132.0	2154.3	2230.5	2304.5	2395.1	2434.2	2523.9	2618.3	2837.8	2997.3	2590.9
50°	2210.1	2223.6	2301.2	2421.7	2537.4	2587.7	2706.2	2842.5	3098.2	3251.7	2765.7
52.5°	2310.1	2315.6	2377.5	2537.9	2690.4	2752.7	2909.9	3068.9	3326.1	3472.5	2904.3
55°	2428.2	2418.9	2467.2	2661.1	2865.2	2946.6	3115.4	3298.2	3582.3	3651.1	3005.2
57.5°	2544.9	2530.5	2569.1	2810.8	3081.0	3179.1	3375.8	3534.4	3811.0	3818.0	3075.9
60°	2668.6	2657.9	2703.9	2986.6	3345.6	3461.8	3643.6	3779.4	4032.4	3934.3	3087.0
62.5°	2795.5	2778.3	2843.9	3184.2	3643.6	3749.2	3925.4	4039.8	4249.5	3977.5	2979.6
65°	2918.7	2910.8	3012.2	3419.0	3983.1	4103.0	4274.2	4351.8	4423.4	3912.4	2713.2
67.5°	3049.8	3065.7	3227.5	3732.4	4425.7	4576.4	4761.0	4688.0	4473.2	3604.1	2284.9
70°	3249.8	3260.0	3510.2	4143.0	4996.3	5178.1	5267.4	4807.5	4233.2	3018.7	1717.7
72.5°	3335.8	3380.9	3762.7	4574.1	5644.5	5755.6	5437.6	4541.1	3526.5	2050.6	902.5
73°	3316.8	3370.7	3774.3	4639.6	5695.2	5811.9	5401.3	4403.9	3278.2	1766.0	773.7
75°	3079.1	3145.6	3623.2	4584.8	5596.6	5526.8	4818.2	3753.4	2215.2	803.0	352.5
77.5°	2429.6	2448.6	2870.8	3702.2	4407.1	4277.9	3606.0	2345.9	904.9	298.5	199.9
80°	1218.7	1288.9	1618.2	2120.8	2947.1	2904.8	2276.1	1109.5	377.1	175.3	132.5
82.5°	586.3	636.1	788.2	1034.1	1628.4	1589.8	1127.1	606.3	239.5	102.3	78.1
85°	377.6	414.8	501.7	493.4	669.6	639.4	506.4	458.9	141.8	53.5	54.4
87.5°	249.2	272.9	327.4	261.8	243.7	220.4	223.7	258.5	27.9	20.5	7.4
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°	1446.6	1446.6	1446.6	1446.6	1446.6	1446.6	1446.6	1446.6	1446.6	1446.6	1446.6
2.5°	1430.8	1424.7	1404.7	1385.2	1366.6	1348.9	1337.3	1322.0	1311.7	1314.5	1318.7
5°	1395.0	1381.5	1346.1	1311.7	1279.2	1240.6	1209.4	1184.3	1165.3	1158.3	1156.9
7.5°	1357.3	1334.5	1283.8	1224.8	1169.4	1121.5	1066.2	1038.8	1006.7	995.5	991.8
10°	1334.5	1303.8	1232.7	1150.4	1067.1	987.6	927.6	878.8	834.7	826.3	822.1
12.5°	1328.0	1287.5	1191.8	1085.7	975.1	877.4	788.6	724.4	681.7	671.9	657.5
15°	1324.3	1274.1	1153.6	1020.6	880.2	761.2	667.7	592.9	553.8	527.8	528.2
17.5°	1321.0	1258.7	1110.9	949.5	798.4	661.2	558.0	490.6	454.8	440.8	439.4
20°	1316.4	1240.6	1061.6	874.6	704.9	570.1	476.6	426.4	402.2	390.6	390.1
22.5°	1314.5	1222.9	1013.2	798.4	622.2	499.9	422.7	387.3	372.0	364.1	364.1
25°	1319.2	1210.4	962.5	725.8	548.7	439.9	385.5	361.3	352.5	348.3	346.9
27.5°	1333.6	1204.8	912.3	653.3	481.3	399.0	360.4	343.6	337.1	333.9	334.3
30°	1361.0	1204.3	863.0	581.7	431.0	367.8	340.4	328.7	323.6	321.8	321.3
32.5°	1405.2	1214.5	814.7	522.6	388.7	341.8	321.8	313.4	311.1	309.7	309.2
35°	1480.1	1243.4	766.8	468.7	356.2	318.5	304.1	299.9	296.7	298.1	298.5
37.5°	1581.0	1293.1	721.2	426.4	331.5	301.3	289.2	285.5	283.6	285.0	286.4
40°	1716.3	1364.7	683.1	392.4	313.9	286.9	276.2	272.9	271.1	273.4	273.9
42.5°	1865.5	1447.5	651.4	365.9	299.5	274.8	264.6	260.9	259.5	260.9	261.3
45°	2019.0	1543.8	635.2	346.9	287.4	266.0	255.3	251.1	247.8	246.9	248.3
47.5°	2170.1	1627.5	634.7	335.3	277.6	258.1	246.4	241.8	237.6	235.3	234.8
50°	2293.3	1693.9	645.9	330.1	269.2	249.2	237.6	233.0	227.4	222.7	223.7
52.5°	2386.3	1737.2	651.0	327.8	264.6	239.9	228.3	224.1	217.6	211.6	211.6
55°	2446.3	1747.4	638.4	325.5	260.9	230.2	217.6	213.9	207.4	201.3	201.3
57.5°	2466.8	1715.8	593.3	319.9	257.1	221.8	206.9	203.7	198.5	192.5	191.6
60°	2419.3	1608.9	514.3	303.2	249.7	213.0	195.3	193.9	192.0	186.9	186.5
62.5°	2236.6	1381.9	428.3	281.3	237.1	203.7	184.6	186.9	188.3	185.5	185.1
65°	1932.5	1122.0	365.9	251.1	220.4	190.6	173.0	179.0	182.7	182.7	181.8
67.5°	1567.5	861.6	308.3	225.1	199.5	173.0	160.0	164.6	167.4	166.5	168.8
70°	1114.1	583.6	251.1	195.3	173.0	153.0	143.2	143.2	141.4	140.4	140.4
72.5°	540.3	333.4	203.7	163.2	147.4	130.7	122.8	119.5	115.8	115.3	113.0
73°	451.5	299.0	194.4	157.2	141.4	127.4	118.6	113.5	111.1	109.3	108.8
75°	274.8	226.9	162.3	132.5	120.4	109.7	101.8	97.2	94.9	93.5	93.0
77.5°	180.9	169.3	126.0	101.4	92.1	85.6	82.3	77.7	76.3	74.4	74.4
80°	134.8	129.3	90.2	71.6	66.0	60.4	59.5	58.6	54.9	52.5	51.6
82.5°	87.0	92.1	61.4	47.9	41.8	37.2	37.7	39.1	35.3	32.1	31.2
85°	61.8	66.5	37.2	21.9	17.7	15.3	17.2	15.3	15.8	12.6	10.2
87.5°	10.2	17.7	6.5	2.8	1.4	0.9	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)