

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: P526901

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
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-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4293 lumens
Efficiency: N/A
Efficacy: 66.0 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

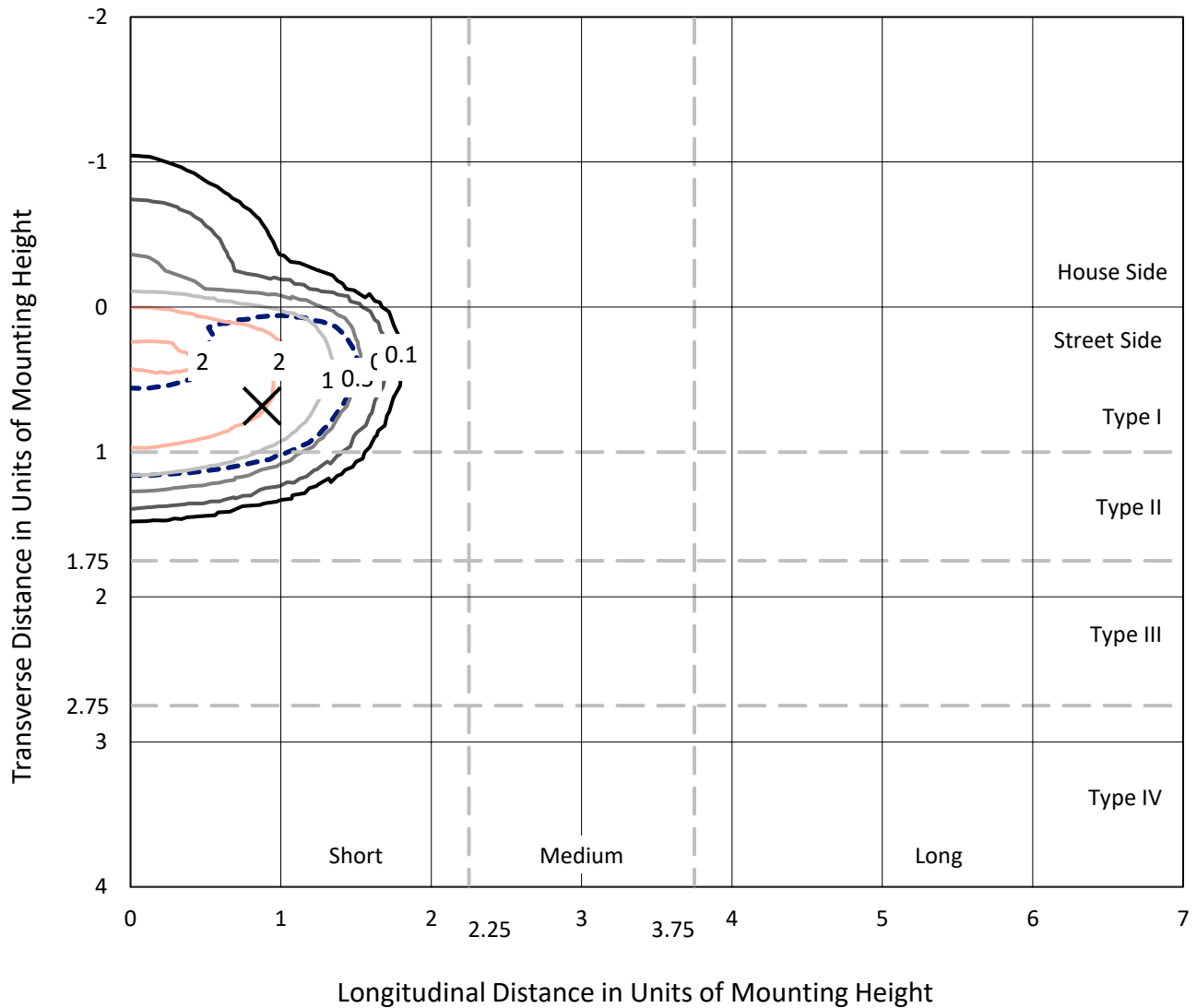
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

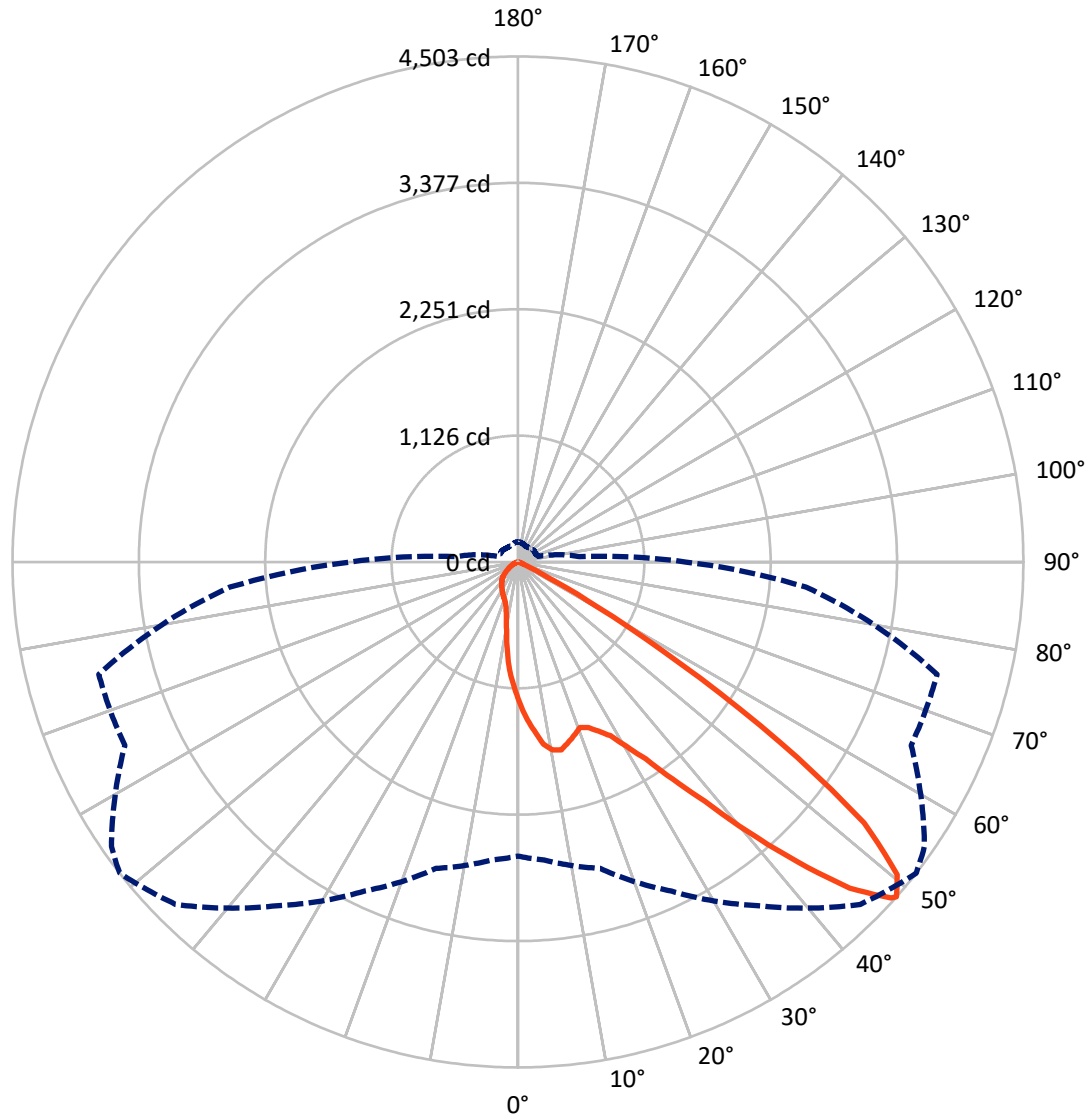
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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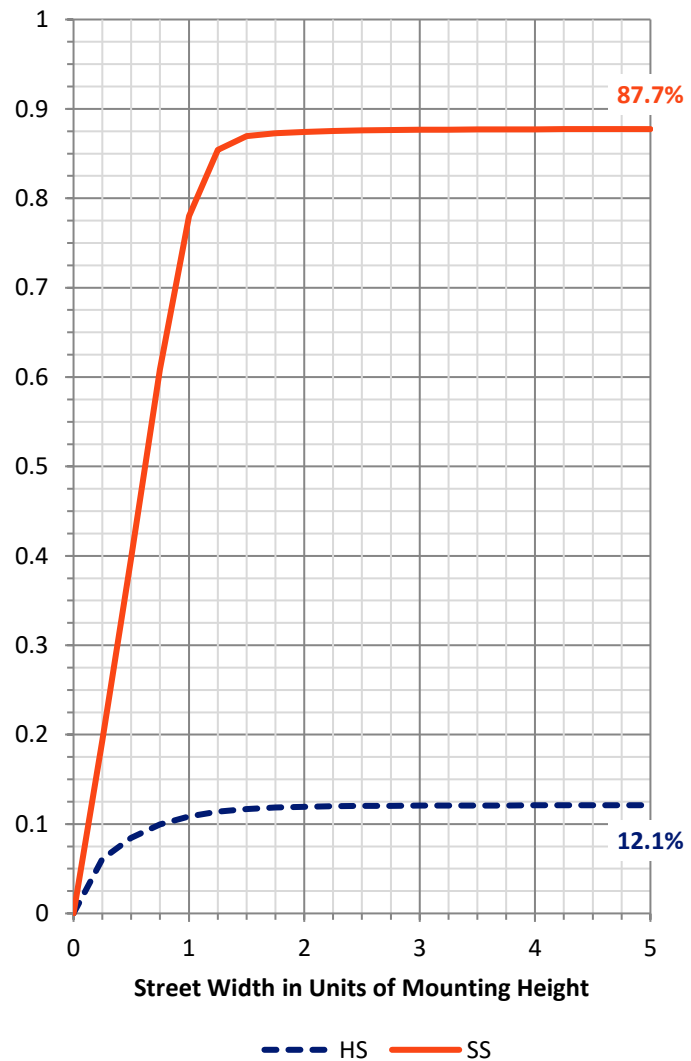
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	522.7	0.0	522.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	3770.3	0.0	3770.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	4293.0	0.0	4293.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	2.6
10°-20°	296.5	6.9
20°-30°	506.3	11.8
30°-40°	932.4	21.7
40°-50°	1448.0	33.7
50°-60°	871.5	20.3
60°-70°	100.8	2.3
70°-80°	19.5	0.5
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°	4293.0	100.0
0°-180°	4293.0	100.0

Coefficient of Utilization



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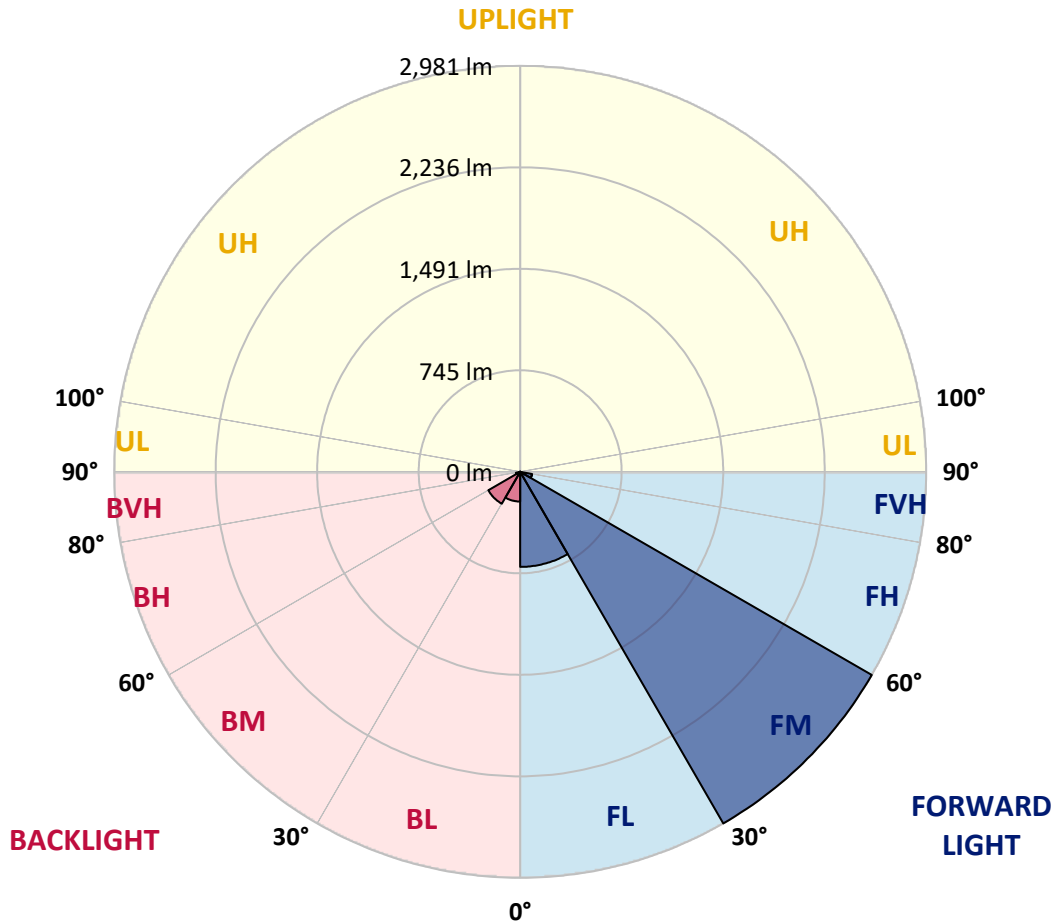
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	698.0	16.3			
FM (30°-60°)	2981.4	69.4			
FH (60°-80°)	88.8	2.1			G0/660
FVH (80°-90°)	2.2	0.1			G0/10
BL (0°-30°)	218.4	5.1	B1/500		
BM (30°-60°)	270.4	6.3	B1/1000		
BH (60°-80°)	31.6	0.7	B0/110		G0/110
BVH (80°-90°)	2.4	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°	52°	55°	65°	75°	85°
0°	1239.7	1239.7	1239.7	1239.7	1239.7	1239.7	1239.7	1239.7	1239.7	1239.7	1239.7
2.5°	1502.6	1468.2	1471.3	1448.8	1435.6	1414.4	1385.6	1379.9	1348.6	1306.1	1262.9
5°	1637.8	1629.6	1640.3	1607.7	1609.0	1573.9	1506.3	1507.6	1435.6	1366.2	1299.2
7.5°	1646.5	1627.8	1638.4	1667.2	1684.1	1677.8	1639.6	1606.5	1538.3	1436.3	1338.6
10°	1474.4	1510.1	1521.4	1568.9	1636.5	1707.9	1703.5	1705.4	1648.4	1515.1	1372.4
12.5°	1371.2	1347.4	1385.6	1414.4	1516.4	1654.7	1717.9	1731.6	1736.0	1591.5	1406.2
15°	1324.2	1324.2	1330.5	1338.6	1412.5	1540.1	1669.1	1709.1	1803.6	1691.6	1459.4
17.5°	1353.6	1352.4	1361.2	1344.3	1371.8	1470.0	1624.0	1669.7	1879.3	1789.8	1501.3
20°	1443.1	1447.5	1441.9	1393.1	1395.0	1468.8	1573.9	1645.9	1930.7	1875.0	1557.0
22.5°	1567.7	1570.2	1538.3	1485.1	1469.4	1505.7	1602.7	1657.8	1972.0	1977.0	1573.9
25°	1711.6	1701.6	1695.3	1620.2	1572.7	1604.0	1667.8	1699.7	1997.6	2064.6	1622.1
27.5°	1911.3	1891.2	1853.0	1786.1	1751.0	1706.6	1752.3	1804.9	2070.8	2187.2	1674.7
30°	2206.0	2188.5	2114.0	2027.7	1935.7	1891.9	1906.2	1935.0	2202.9	2329.3	1744.2
32.5°	2649.7	2612.8	2505.2	2340.6	2215.4	2094.6	2090.9	2121.5	2321.2	2525.8	1826.8
35°	3138.5	3127.2	2968.9	2799.3	2557.1	2370.6	2373.7	2390.0	2547.7	2783.6	1935.0
37.5°	3463.3	3525.2	3424.5	3242.4	3039.0	2772.4	2704.8	2710.4	2858.7	3089.0	2130.3
40°	3714.2	3661.7	3673.6	3631.0	3492.1	3310.6	3161.0	3131.6	3218.6	3427.0	2324.3
42.5°	3604.7	3607.2	3680.4	3781.2	3815.6	3802.5	3649.8	3594.1	3526.5	3703.6	2508.9
45°	3295.6	3360.0	3455.1	3721.7	3955.8	4175.5	4145.4	4052.8	3739.3	3922.6	2615.3
47.5°	2802.4	2799.9	2955.7	3302.4	3822.5	4336.9	4473.4	4408.3	3890.1	3898.2	2593.4
48°	2620.3	2665.4	2826.2	3234.2	3738.0	4313.1	4502.8	4420.8	3864.4	3865.7	2574.6
50°	1936.9	1928.8	2129.0	2629.7	3338.7	4052.8	4378.9	4442.7	3863.8	3701.1	2443.2
52.5°	1023.2	1058.3	1204.1	1653.4	2360.6	3316.8	3862.6	3962.1	3727.4	3432.0	2254.2
55°	434.9	393.0	505.0	746.6	1328.0	2216.0	2833.7	3055.2	3151.6	3037.1	1972.0
57.5°	155.2	169.6	195.3	281.0	558.2	1212.8	1689.7	1861.8	2183.5	2228.5	1343.6
60°	99.5	101.4	109.5	128.9	209.6	467.5	801.7	938.7	1084.5	1119.6	627.1
62.5°	77.0	77.6	81.4	84.5	99.5	181.5	301.0	356.7	370.5	318.5	164.6
65°	64.5	65.1	66.3	66.3	70.7	85.1	105.1	115.8	112.6	111.4	93.2
67.5°	49.4	50.7	53.2	53.2	55.7	51.9	58.2	62.0	70.1	85.1	79.5
70°	38.8	39.4	41.3	42.6	42.6	37.5	41.9	45.7	51.3	63.2	62.6
72.5°	30.0	31.3	32.5	32.5	30.7	25.7	30.0	33.2	36.9	43.8	42.6
75°	23.2	23.2	23.8	19.4	15.0	13.1	18.1	21.9	27.5	28.8	23.8
77.5°	6.3	6.9	6.3	5.6	6.3	9.4	11.9	13.8	17.5	17.5	15.6
80°	0.0	0.6	1.9	3.8	6.3	8.8	10.6	11.9	13.8	15.0	14.4
82.5°	0.0	0.6	1.9	3.8	5.6	6.9	9.4	10.0	11.3	13.1	13.1
85°	0.0	0.6	1.3	2.5	3.8	4.4	4.4	3.8	3.8	3.1	2.5
87.5°	0.0	0.0	0.6	1.3	1.3	1.9	1.9	1.9	1.9	1.9	1.9
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°	1239.7	1239.7	1239.7	1239.7	1239.7	1239.7	1239.7	1239.7	1239.7	1239.7	1239.7
2.5°	1246.0	1226.6	1197.2	1150.9	1106.4	1077.7	1050.1	1019.5	1002.6	1001.3	991.9
5°	1261.0	1217.2	1147.1	1067.6	982.5	909.3	835.5	787.3	744.1	720.3	715.9
7.5°	1269.2	1212.2	1098.9	965.6	820.4	700.9	618.3	557.6	533.8	516.3	515.7
10°	1286.1	1203.4	1027.0	830.5	650.9	530.1	473.1	445.6	432.4	427.4	419.9
12.5°	1298.6	1187.2	953.1	691.5	514.4	439.3	414.3	408.0	408.7	411.2	408.0
15°	1316.1	1172.8	853.6	567.6	431.8	395.5	395.5	396.8	405.5	406.8	406.2
17.5°	1314.8	1144.6	751.0	467.5	381.7	376.7	378.6	390.5	396.1	398.0	393.6
20°	1329.9	1118.3	645.2	399.3	353.6	361.1	373.6	376.7	383.6	384.9	379.9
22.5°	1325.5	1052.6	547.0	345.5	332.3	346.7	359.2	363.0	361.1	357.3	356.7
25°	1317.3	996.3	456.8	309.8	316.7	332.3	344.2	337.3	333.6	334.2	334.8
27.5°	1303.0	925.0	382.4	284.7	295.4	318.5	317.9	315.4	319.2	316.0	319.2
30°	1300.5	853.6	321.0	262.2	279.7	296.6	297.9	302.3	306.7	301.0	306.7
32.5°	1304.2	775.4	277.2	248.5	270.4	271.0	284.7	289.1	286.0	273.5	274.7
35°	1333.0	715.3	245.3	240.9	255.3	256.0	269.1	263.5	249.7	242.2	246.6
37.5°	1393.7	665.2	230.3	234.1	235.3	243.4	244.1	232.8	234.1	233.4	235.9
40°	1471.3	627.1	219.7	227.8	226.5	232.2	209.6	215.9	221.5	223.4	224.7
42.5°	1524.5	599.5	212.8	217.8	215.3	205.3	192.8	199.0	203.4	210.3	211.5
45°	1548.3	577.6	204.6	200.3	200.3	182.1	177.1	178.4	188.4	195.9	194.6
47.5°	1509.5	556.4	190.2	177.1	181.5	166.5	160.8	160.8	171.5	180.9	179.0
48°	1494.5	547.6	190.9	172.1	175.2	164.0	158.3	157.1	169.0	177.7	177.7
50°	1420.0	515.0	174.6	158.3	152.1	150.8	147.1	148.3	155.8	164.0	164.0
52.5°	1274.8	445.0	147.7	135.8	124.5	132.0	133.9	131.4	135.2	142.7	142.1
55°	1063.9	341.7	118.3	112.6	103.9	112.0	115.8	112.6	108.9	114.5	114.5
57.5°	681.5	184.0	94.5	95.8	87.0	95.1	98.3	90.7	83.9	88.2	87.6
60°	307.3	110.1	77.6	75.7	70.1	79.5	84.5	75.7	66.3	69.5	72.6
62.5°	115.2	78.2	58.8	57.6	56.3	65.1	67.6	60.7	51.3	53.2	53.8
65°	84.5	68.8	46.9	42.6	45.1	51.3	50.1	43.2	36.9	36.9	38.2
67.5°	72.0	60.1	38.2	33.2	33.2	33.8	31.3	27.5	25.7	26.9	28.2
70°	56.3	47.6	30.0	25.7	23.2	20.7	18.1	17.5	15.6	17.5	16.9
72.5°	36.3	31.9	23.2	19.4	17.5	14.4	11.9	11.3	9.4	8.8	8.8
75°	19.4	19.4	18.1	15.6	13.8	11.3	9.4	7.5	5.0	3.8	3.8
77.5°	13.8	15.0	16.3	15.0	12.5	9.4	7.5	5.0	2.5	1.3	1.3
80°	13.1	15.0	16.3	14.4	12.5	9.4	6.9	3.8	1.9	0.6	0.6
82.5°	11.9	13.8	15.0	13.1	11.3	8.1	6.3	3.8	1.9	0.6	0.6
85°	2.5	3.1	3.8	3.8	4.4	5.6	4.4	3.1	1.3	0.6	0.6
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.3	0.6	0.6	0.6
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)