

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: P527135

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527135
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-SA2A-827-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5043 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

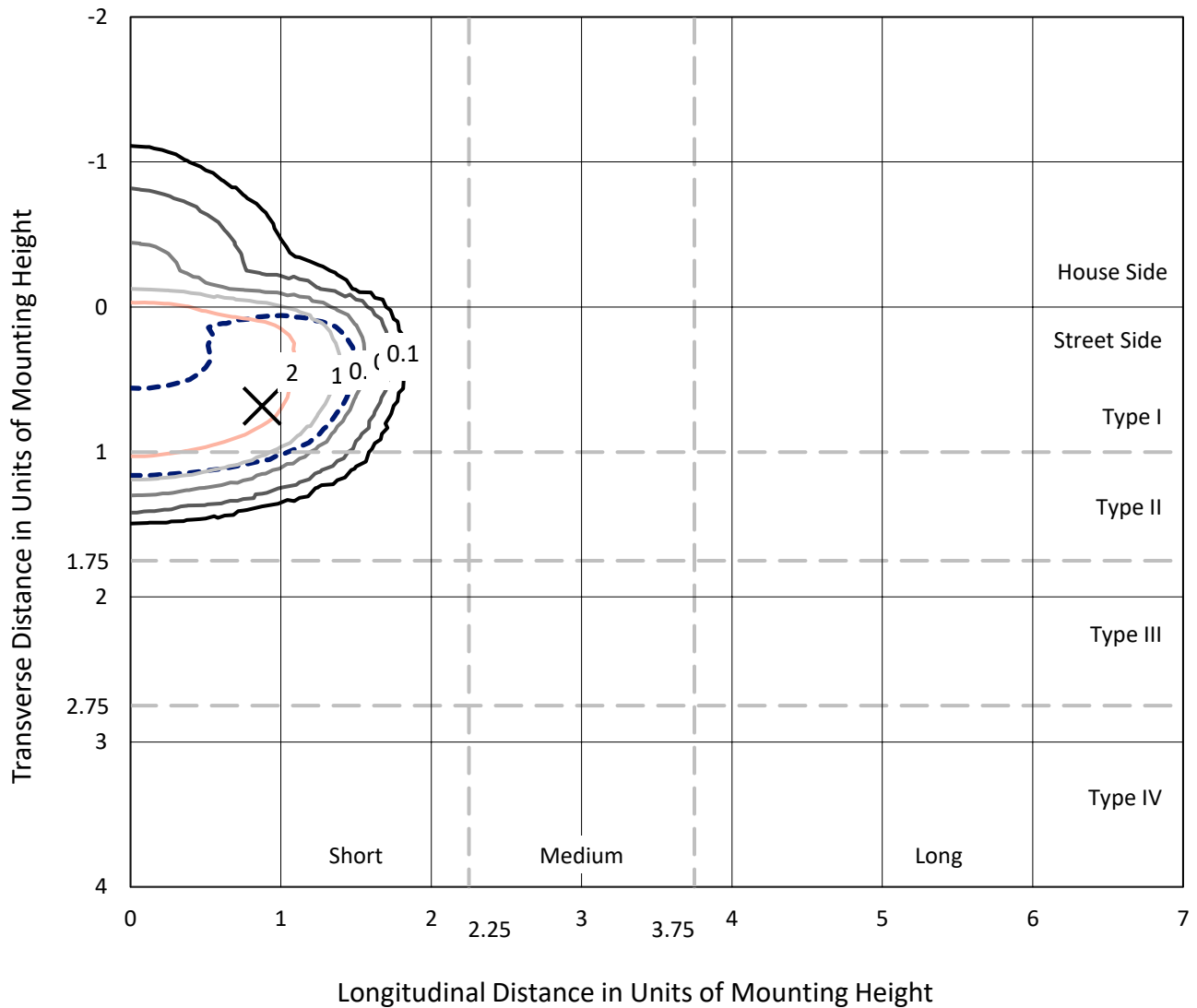
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

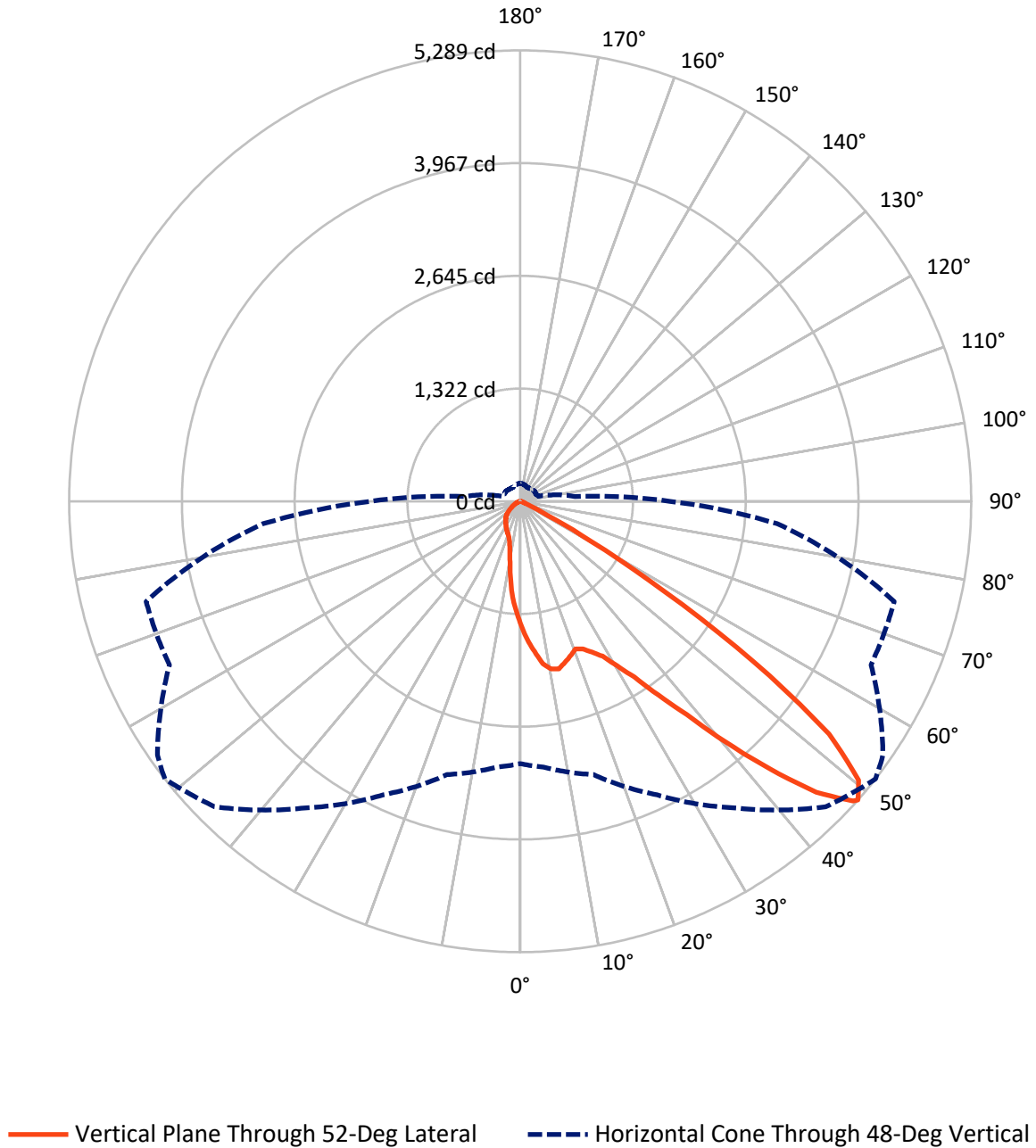
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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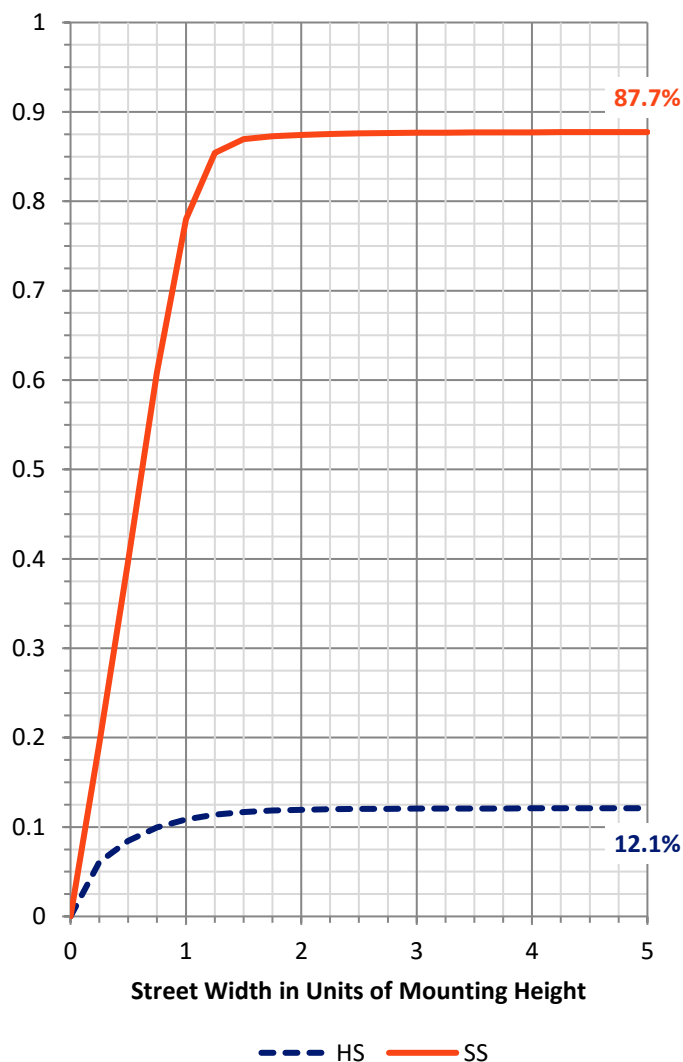
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	614.0	0.0	614.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	4429.0	0.0	4429.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	5043.0	0.0	5043.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	2.6
10°-20°	348.4	6.9
20°-30°	594.8	11.8
30°-40°	1095.3	21.7
40°-50°	1701.0	33.7
50°-60°	1023.7	20.3
60°-70°	118.4	2.3
70°-80°	22.9	0.5
80°-90°	5.3	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°	5043.0	100.0
0°-180°	5043.0	100.0

Coefficient of Utilization



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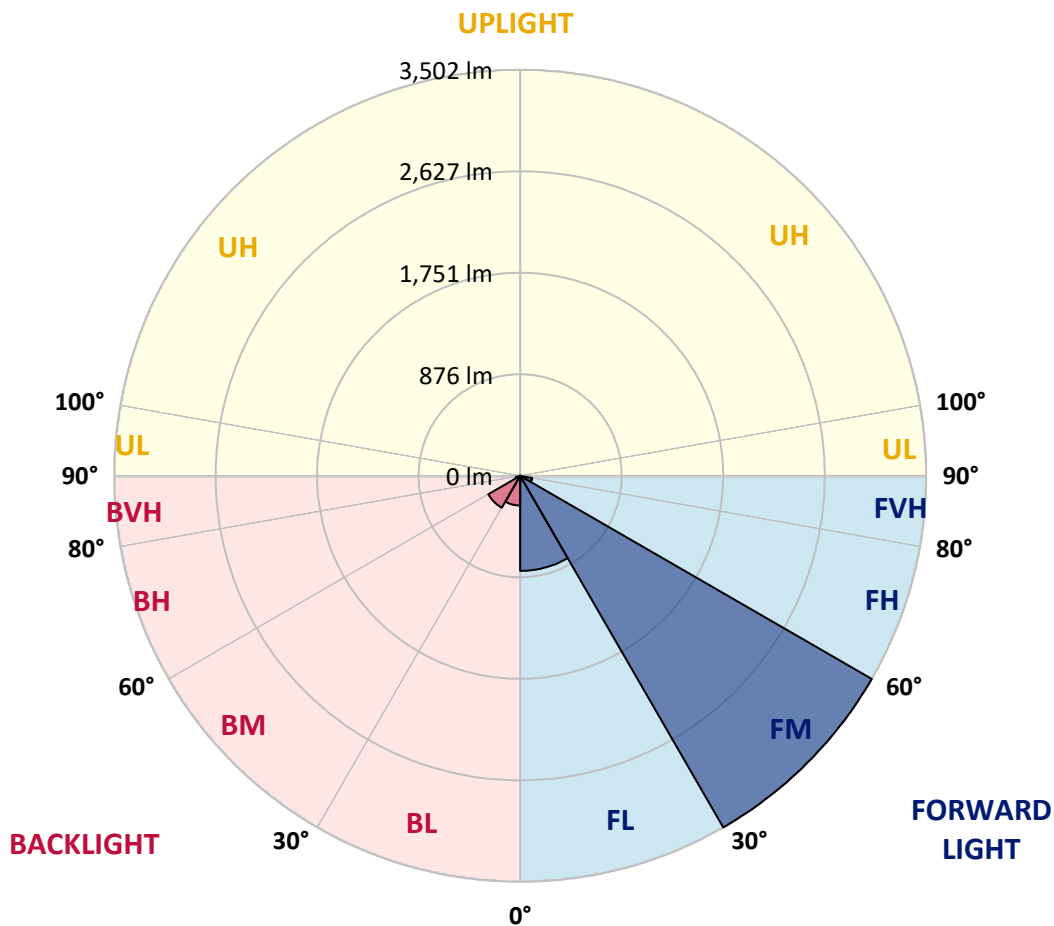
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	819.9	16.3			
FM (30°-60°)	3502.3	69.4			
FH (60°-80°)	104.3	2.1			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	256.5	5.1	B1/500		
BM (30°-60°)	317.7	6.3	B1/1000		
BH (60°-80°)	37.1	0.7	B0/110		G0/110
BVH (80°-90°)	2.8	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°	1456.3	1456.3	1456.3	1456.3	1456.3	1456.3	1456.3	1456.3	1456.3	1456.3	1456.3
2.5°	1765.1	1724.7	1728.3	1701.9	1686.4	1661.4	1627.6	1621.0	1584.3	1534.3	1483.5
5°	1923.9	1914.3	1926.8	1888.6	1890.1	1848.9	1769.5	1771.0	1686.4	1604.8	1526.2
7.5°	1934.2	1912.1	1924.6	1958.4	1978.3	1970.9	1926.1	1887.1	1807.0	1687.2	1572.5
10°	1732.0	1773.9	1787.2	1843.0	1922.4	2006.2	2001.1	2003.3	1936.4	1779.8	1612.2
12.5°	1610.7	1582.8	1627.6	1661.4	1781.3	1943.7	2018.0	2034.2	2039.3	1869.5	1651.9
15°	1555.6	1555.6	1562.9	1572.5	1659.2	1809.2	1960.6	2007.7	2118.7	1987.1	1714.4
17.5°	1590.1	1588.7	1599.0	1579.1	1611.5	1726.9	1907.7	1961.4	2207.7	2102.5	1763.6
20°	1695.3	1700.4	1693.8	1636.4	1638.7	1725.4	1848.9	1933.4	2267.9	2202.5	1829.1
22.5°	1841.6	1844.5	1807.0	1744.5	1726.1	1768.8	1882.7	1947.4	2316.5	2322.3	1848.9
25°	2010.6	1998.9	1991.5	1903.3	1847.4	1884.2	1959.2	1996.7	2346.6	2425.3	1905.5
27.5°	2245.2	2221.6	2176.8	2098.1	2057.0	2004.8	2058.4	2120.2	2432.6	2569.4	1967.3
30°	2591.4	2570.8	2483.3	2381.9	2273.8	2222.4	2239.3	2273.1	2587.7	2736.2	2048.9
32.5°	3112.6	3069.3	2942.8	2749.5	2602.4	2460.6	2456.1	2492.2	2726.7	2967.1	2145.9
35°	3686.8	3673.6	3487.6	3288.3	3003.8	2784.8	2788.4	2807.5	2992.8	3270.0	2273.1
37.5°	4068.3	4141.1	4022.7	3808.8	3569.9	3256.7	3177.3	3183.9	3358.2	3628.7	2502.5
40°	4363.1	4301.4	4315.3	4265.3	4102.1	3889.0	3713.2	3678.7	3780.9	4025.7	2730.4
42.5°	4234.5	4237.4	4323.4	4441.8	4482.2	4466.8	4287.4	4222.0	4142.6	4350.6	2947.2
45°	3871.3	3947.0	4058.8	4371.9	4646.9	4904.9	4869.6	4760.8	4392.5	4607.9	3072.2
47.5°	3292.0	3289.1	3472.1	3879.4	4490.3	5094.6	5254.9	5178.4	4569.7	4579.3	3046.5
48°	3078.1	3131.0	3319.9	3799.3	4391.1	5066.7	5289.4	5193.1	4539.6	4541.0	3024.4
50°	2275.3	2265.7	2501.0	3089.1	3922.0	4760.8	5143.9	5218.8	4538.8	4347.7	2870.0
52.5°	1202.0	1243.1	1414.4	1942.3	2773.0	3896.3	4537.4	4654.2	4378.6	4031.6	2648.0
55°	510.9	461.7	593.3	877.0	1560.0	2603.2	3328.8	3589.0	3702.2	3567.7	2316.5
57.5°	182.3	199.2	229.4	330.1	655.8	1424.7	1984.9	2187.1	2564.9	2617.9	1578.4
60°	116.9	119.1	128.7	151.4	246.3	549.2	941.7	1102.7	1274.0	1315.2	736.6
62.5°	90.4	91.2	95.6	99.2	116.9	213.2	353.6	419.0	435.2	374.2	193.3
65°	75.7	76.5	77.9	77.9	83.1	100.0	123.5	136.0	132.3	130.9	109.5
67.5°	58.1	59.5	62.5	62.5	65.4	61.0	68.4	72.8	82.3	100.0	93.4
70°	45.6	46.3	48.5	50.0	50.0	44.1	49.3	53.7	60.3	74.3	73.5
72.5°	35.3	36.8	38.2	38.2	36.0	30.1	35.3	39.0	43.4	51.5	50.0
75°	27.2	27.2	27.9	22.8	17.6	15.4	21.3	25.7	32.3	33.8	27.9
77.5°	7.4	8.1	7.4	6.6	7.4	11.0	14.0	16.2	20.6	20.6	18.4
80°	0.0	0.7	2.2	4.4	7.4	10.3	12.5	14.0	16.2	17.6	16.9
82.5°	0.0	0.7	2.2	4.4	6.6	8.1	11.0	11.8	13.2	15.4	15.4
85°	0.0	0.7	1.5	2.9	4.4	5.1	5.1	4.4	4.4	3.7	2.9
87.5°	0.0	0.0	0.7	1.5	1.5	2.2	2.2	2.2	2.2	2.2	2.2
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°	1456.3	1456.3	1456.3	1456.3	1456.3	1456.3	1456.3	1456.3	1456.3	1456.3	1456.3
2.5°	1463.7	1440.9	1406.3	1351.9	1299.7	1265.9	1233.6	1197.6	1177.7	1176.2	1165.2
5°	1481.3	1429.9	1347.5	1254.2	1154.2	1068.2	981.4	924.8	874.1	846.2	841.0
7.5°	1490.9	1424.0	1290.9	1134.3	963.8	823.4	726.3	655.0	627.1	606.5	605.8
10°	1510.7	1413.7	1206.4	975.5	764.6	622.7	555.8	523.4	508.0	502.1	493.3
12.5°	1525.4	1394.6	1119.6	812.3	604.3	516.1	486.7	479.3	480.1	483.0	479.3
15°	1546.0	1377.7	1002.7	666.8	507.3	464.6	464.6	466.1	476.4	477.8	477.1
17.5°	1544.6	1344.6	882.2	549.2	448.4	442.6	444.8	458.7	465.4	467.6	462.4
20°	1562.2	1313.7	757.9	469.0	415.4	424.2	438.9	442.6	450.6	452.1	446.2
22.5°	1557.1	1236.5	642.5	405.8	390.4	407.3	422.0	426.4	424.2	419.8	419.0
25°	1547.5	1170.4	536.7	363.9	372.0	390.4	404.3	396.2	391.8	392.6	393.3
27.5°	1530.6	1086.6	449.2	334.5	347.0	374.2	373.5	370.5	374.9	371.3	374.9
30°	1527.6	1002.7	377.1	308.0	328.6	348.5	349.9	355.1	360.2	353.6	360.2
32.5°	1532.1	910.9	325.7	291.9	317.6	318.3	334.5	339.6	336.0	321.3	322.7
35°	1565.9	840.3	288.2	283.0	299.9	300.7	316.1	309.5	293.3	284.5	289.6
37.5°	1637.2	781.5	270.5	274.9	276.4	286.0	286.7	273.5	274.9	274.2	277.2
40°	1728.3	736.6	258.0	267.6	266.1	272.7	246.3	253.6	260.2	262.4	263.9
42.5°	1790.8	704.3	250.0	255.8	252.9	241.1	226.4	233.8	238.9	247.0	248.5
45°	1818.8	678.5	240.4	235.2	235.2	213.9	208.0	209.5	221.3	230.1	228.6
47.5°	1773.2	653.5	223.5	208.0	213.2	195.6	188.9	188.9	201.4	212.5	210.3
48°	1755.5	643.3	224.2	202.2	205.8	192.6	186.0	184.5	198.5	208.8	208.8
50°	1668.1	605.0	205.1	186.0	178.6	177.2	172.8	174.2	183.1	192.6	192.6
52.5°	1497.5	522.7	173.5	159.5	146.3	155.1	157.3	154.4	158.8	167.6	166.9
55°	1249.8	401.4	138.9	132.3	122.0	131.6	136.0	132.3	127.9	134.5	134.5
57.5°	800.6	216.1	111.0	112.5	102.2	111.7	115.4	106.6	98.5	103.7	102.9
60°	361.0	129.4	91.2	89.0	82.3	93.4	99.2	89.0	77.9	81.6	85.3
62.5°	135.3	91.9	69.1	67.6	66.2	76.5	79.4	71.3	60.3	62.5	63.2
65°	99.2	80.9	55.1	50.0	52.9	60.3	58.8	50.7	43.4	43.4	44.8
67.5°	84.5	70.6	44.8	39.0	39.0	39.7	36.8	32.3	30.1	31.6	33.1
70°	66.2	55.9	35.3	30.1	27.2	24.3	21.3	20.6	18.4	20.6	19.8
72.5°	42.6	37.5	27.2	22.8	20.6	16.9	14.0	13.2	11.0	10.3	10.3
75°	22.8	22.8	21.3	18.4	16.2	13.2	11.0	8.8	5.9	4.4	4.4
77.5°	16.2	17.6	19.1	17.6	14.7	11.0	8.8	5.9	2.9	1.5	1.5
80°	15.4	17.6	19.1	16.9	14.7	11.0	8.1	4.4	2.2	0.7	0.7
82.5°	14.0	16.2	17.6	15.4	13.2	9.6	7.4	4.4	2.2	0.7	0.7
85°	2.9	3.7	4.4	4.4	5.1	6.6	5.1	3.7	1.5	0.7	0.7
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	1.5	1.5	0.7	0.7	0.7
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)