

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: P451266

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5539 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

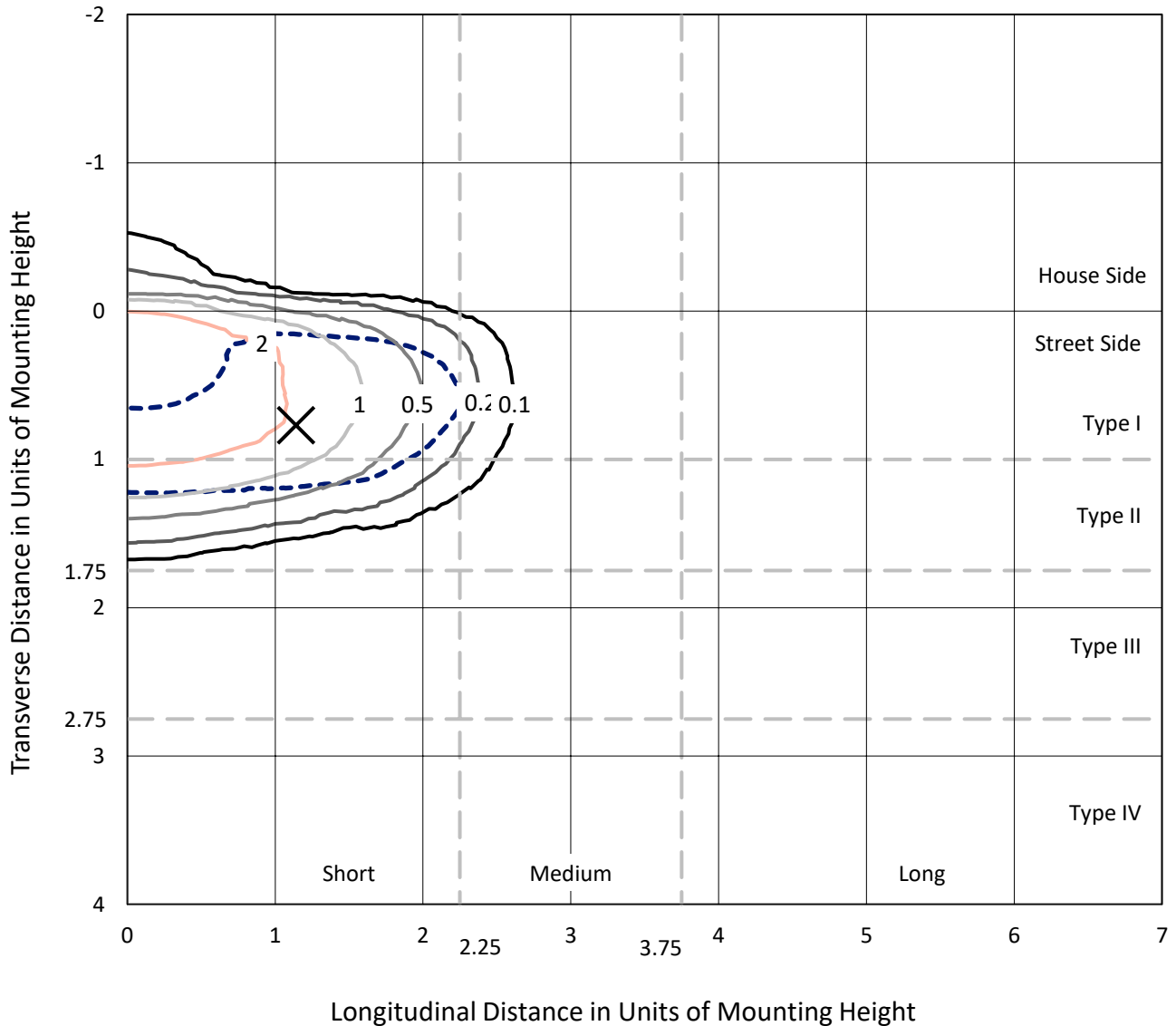
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

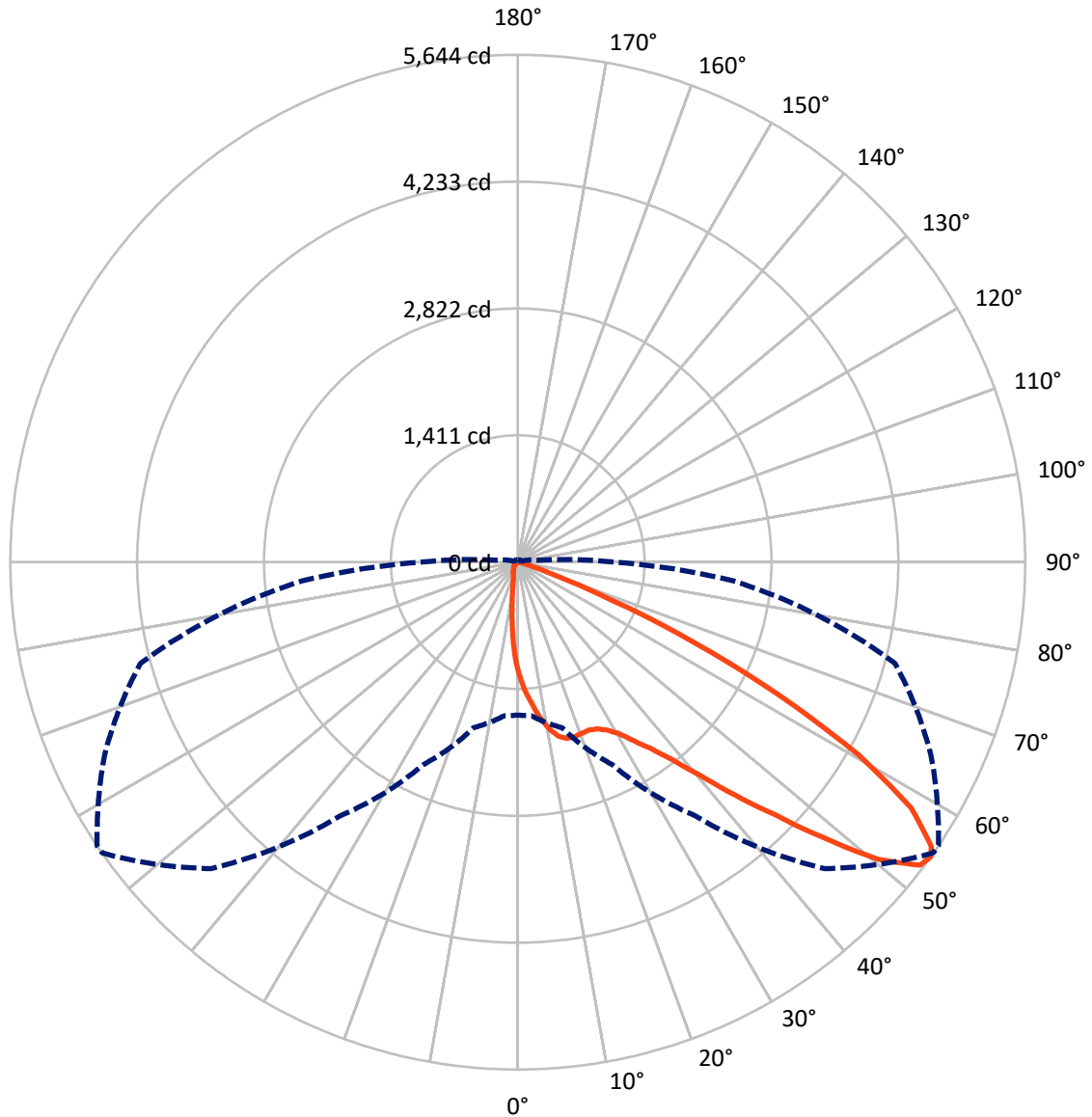
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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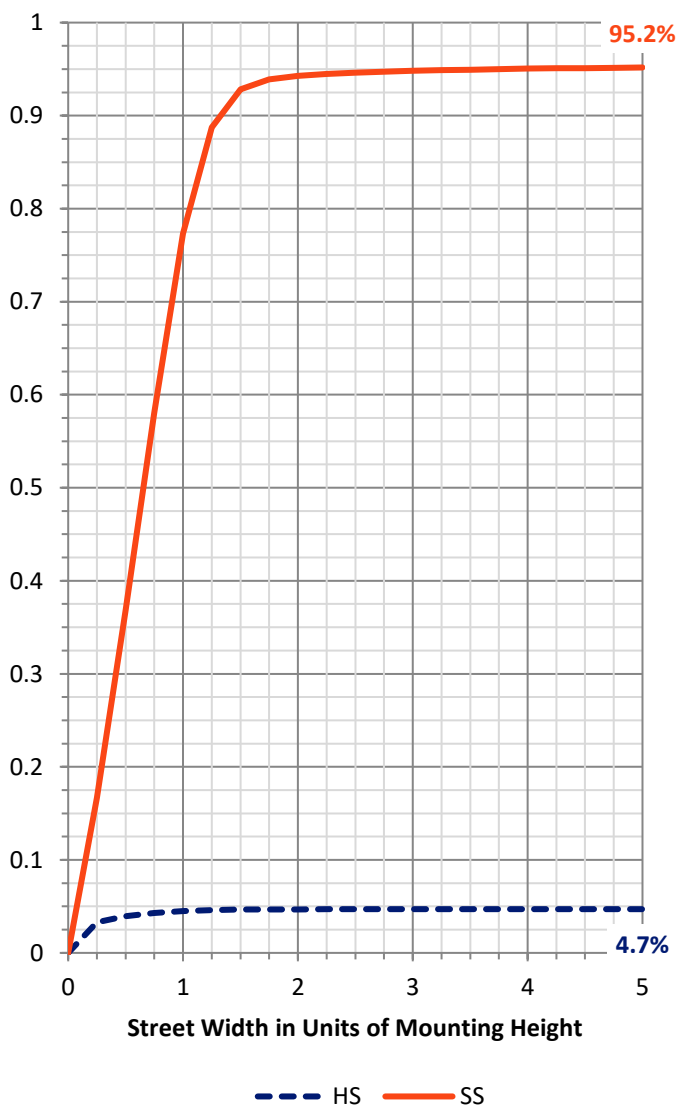
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	261.9	0.0	261.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	5277.1	0.0	5277.1
	% Fixture	95.3	0.0	95.3
Total	Lumens	5539.0	0.0	5539.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	2.0
10°-20°	294.0	5.3
20°-30°	509.1	9.2
30°-40°	878.8	15.9
40°-50°	1495.8	27.0
50°-60°	1480.3	26.7
60°-70°	675.6	12.2
70°-80°	86.8	1.6
80°-90°	9.8	0.2
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°	5539.0	100.0
0°-180°	5539.0	100.0

Coefficient of Utilization



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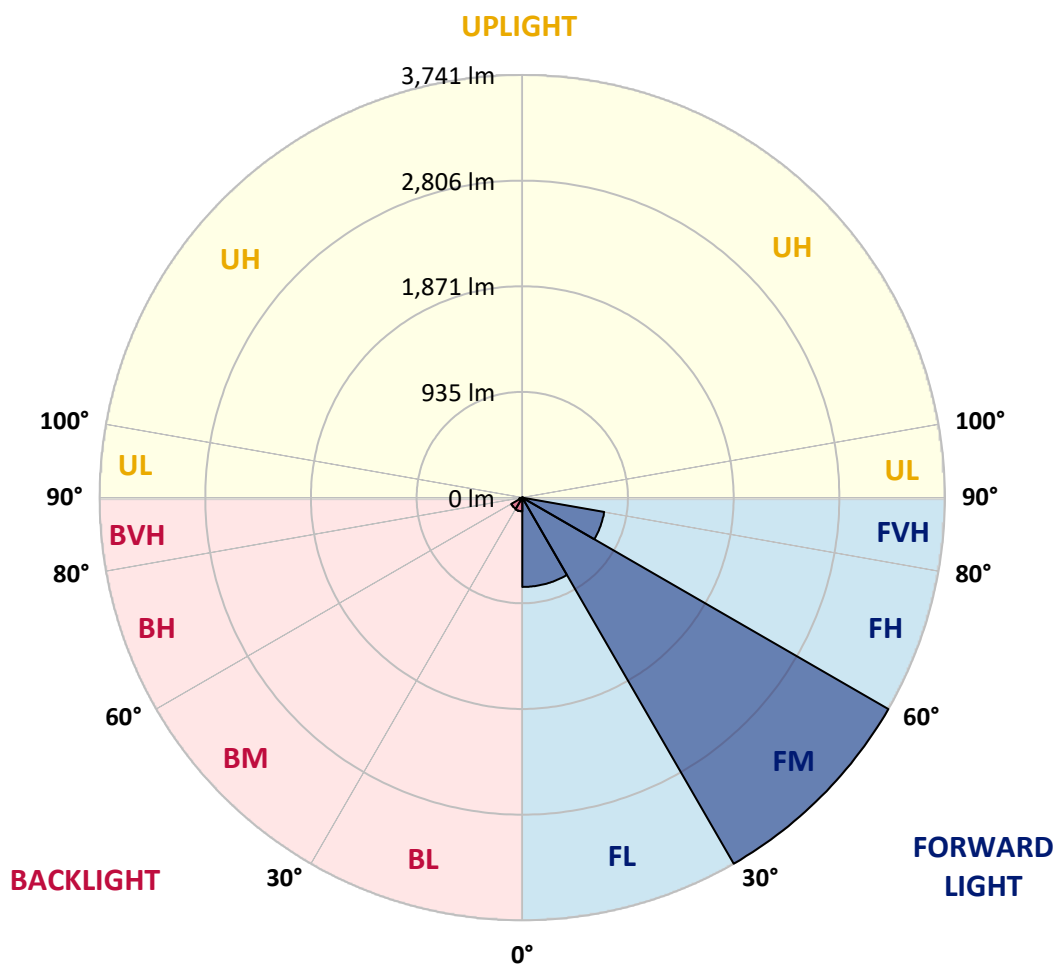
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	790.7	14.3			
FM (30°-60°)	3741.5	67.5			
FH (60°-80°)	736.2	13.3			G1/1800
FVH (80°-90°)	8.7	0.2			G0/10
BL (0°-30°)	121.1	2.2	B1/500		
BM (30°-60°)	113.5	2.0	B0/220		
BH (60°-80°)	26.2	0.5	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1230.6	1230.6	1230.6	1230.6	1230.6	1230.6	1230.6	1230.6	1230.6	1230.6	1230.6
2.5°	1564.0	1553.1	1538.2	1526.6	1499.3	1460.1	1418.6	1418.6	1378.6	1322.9	1266.1
5°	1803.9	1796.8	1782.2	1752.3	1721.7	1666.7	1583.4	1568.8	1497.4	1396.5	1290.4
7.5°	1901.4	1904.8	1905.5	1897.7	1883.1	1828.9	1746.3	1736.2	1622.2	1487.0	1322.2
10°	1808.0	1824.4	1840.5	1873.0	1919.0	1932.0	1885.3	1874.9	1762.8	1578.5	1356.5
12.5°	1669.0	1677.9	1686.9	1738.1	1830.4	1936.2	1985.1	1984.7	1889.8	1669.7	1400.3
15°	1604.3	1612.2	1612.9	1635.7	1715.7	1869.6	2027.7	2033.3	2013.9	1782.2	1447.4
17.5°	1617.8	1624.1	1618.9	1624.5	1666.3	1796.4	2022.9	2041.5	2114.4	1890.2	1490.0
20°	1705.6	1717.9	1697.7	1682.0	1694.7	1777.0	2006.4	2032.6	2185.4	1995.6	1528.8
22.5°	1863.3	1870.0	1844.6	1801.6	1779.2	1817.7	2001.9	2027.7	2246.0	2081.9	1551.2
25°	2038.6	2036.3	2008.3	1960.1	1913.0	1899.9	2031.5	2054.6	2296.0	2159.6	1558.0
27.5°	2213.8	2220.5	2173.5	2113.7	2057.2	2023.2	2097.6	2114.8	2352.5	2248.2	1566.2
30°	2417.5	2406.7	2360.3	2291.9	2227.3	2179.8	2204.1	2209.0	2430.2	2365.5	1587.9
32.5°	2682.4	2652.5	2600.6	2481.0	2434.7	2354.3	2360.3	2366.3	2524.7	2481.8	1614.0
35°	3041.9	3040.5	2938.8	2777.7	2664.9	2565.1	2538.9	2543.8	2667.9	2654.4	1672.0
37.5°	3474.7	3480.7	3364.8	3202.6	2994.9	2836.4	2782.6	2783.3	2885.4	2892.8	1760.1
40°	3827.1	3842.8	3773.7	3664.2	3459.0	3211.2	3120.8	3112.6	3191.1	3181.7	1886.1
42.5°	3978.8	3993.4	4019.2	4057.3	3944.4	3740.0	3526.6	3537.9	3561.8	3496.4	2027.3
45°	3904.5	3927.6	4028.9	4264.3	4370.5	4301.7	4047.2	4008.0	3906.7	3838.3	2169.4
47.5°	3594.7	3651.1	3820.4	4212.4	4583.9	4816.3	4634.7	4582.7	4252.0	4087.9	2259.8
50°	3085.3	3088.7	3324.5	3825.6	4473.2	5141.0	5234.5	5195.6	4573.8	4228.1	2305.4
52.5°	2236.6	2310.2	2526.2	3106.6	3994.1	5091.7	5616.8	5600.7	4905.6	4299.8	2371.2
54°	1700.4	1714.6	1906.6	2482.5	3443.7	4820.8	5640.3	5644.0	5070.4	4343.2	2410.0
55°	1393.9	1359.9	1561.7	2114.8	3068.1	4581.2	5563.3	5581.3	5144.4	4365.6	2438.8
57.5°	660.7	661.1	815.4	1115.5	1921.6	3557.3	5092.8	5156.4	5152.6	4404.1	2527.4
60°	334.5	336.7	370.7	515.0	949.2	2364.8	4210.9	4362.2	4756.1	4409.7	2556.5
62.5°	233.9	231.3	225.7	247.8	399.5	1201.8	3135.0	3266.5	4040.9	4196.3	2463.8
65°	200.3	194.7	179.0	175.6	201.8	478.7	1952.6	2167.1	3085.3	3633.5	2200.0
67.5°	171.2	168.9	154.7	146.1	142.8	208.5	1007.5	1120.4	2108.8	2611.8	1666.3
70°	145.4	144.2	135.7	124.8	115.5	124.8	373.7	463.0	1175.3	1406.2	786.3
72.5°	118.1	119.2	120.7	106.9	97.2	88.6	159.6	185.7	491.8	502.6	275.0
75°	103.5	102.4	102.4	93.1	81.1	65.8	87.8	94.5	150.6	139.8	63.9
77.5°	72.9	70.3	82.2	76.6	67.6	46.7	50.1	53.1	62.4	53.4	29.9
80°	50.5	50.5	52.7	68.8	60.9	34.0	30.6	32.9	37.0	31.8	17.2
82.5°	28.4	29.1	34.4	36.6	35.5	22.8	20.2	20.6	24.7	21.7	10.8
85°	3.4	5.6	19.8	19.4	14.6	10.1	11.2	11.6	15.3	13.5	6.4
87.5°	0.4	0.7	4.1	5.2	3.7	4.1	4.1	4.1	5.2	6.0	4.5
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°	1230.6	1230.6	1230.6	1230.6	1230.6	1230.6	1230.6	1230.6	1230.6	1230.6	1230.6
2.5°	1235.5	1207.1	1139.4	1060.9	1010.9	929.4	860.6	810.9	798.6	774.7	781.8
5°	1234.0	1174.9	1037.0	891.3	735.8	620.0	533.6	465.6	435.7	415.9	402.1
7.5°	1234.7	1142.4	921.2	689.1	503.4	389.8	309.8	268.3	240.7	229.1	230.6
10°	1237.0	1105.8	786.6	510.5	339.7	251.9	202.9	183.1	173.8	172.3	171.9
12.5°	1242.2	1065.8	658.1	378.9	237.7	183.1	164.4	157.7	154.7	154.7	153.6
15°	1247.8	1021.7	551.2	281.8	183.1	157.3	148.7	145.4	143.5	143.5	143.1
17.5°	1247.8	970.9	451.4	218.6	157.7	144.6	137.9	133.4	131.9	131.9	131.5
20°	1239.9	911.8	362.9	176.0	143.1	132.7	125.9	121.1	119.2	118.5	118.1
22.5°	1212.7	833.0	288.9	151.4	131.2	122.2	113.6	108.0	106.5	105.8	106.1
25°	1164.1	744.0	228.7	133.0	120.3	109.5	102.0	97.9	96.4	96.4	96.8
27.5°	1114.0	651.0	181.2	119.2	107.3	97.5	91.6	88.9	88.6	89.7	90.1
30°	1067.7	557.6	146.9	108.0	95.7	87.4	83.3	82.6	82.6	83.0	83.3
32.5°	1016.1	475.7	122.9	98.3	86.3	79.2	77.0	77.0	77.7	77.7	78.5
35°	983.6	405.5	108.0	88.9	79.2	73.2	71.8	72.1	73.2	74.7	75.5
37.5°	966.0	349.4	98.3	81.5	72.5	68.4	66.9	67.6	70.3	72.9	73.2
40°	967.5	307.2	90.4	75.1	67.3	62.8	61.7	63.9	66.5	69.1	69.5
42.5°	984.0	275.8	83.0	67.6	62.8	56.4	56.1	58.3	59.4	62.0	62.4
45°	1003.4	253.0	75.1	59.8	54.6	49.0	49.3	51.2	52.7	56.8	57.6
47.5°	1009.4	237.3	66.1	50.8	44.8	43.0	43.3	44.5	47.5	51.2	51.6
50°	1016.1	227.6	57.6	43.0	38.1	37.7	38.1	38.9	40.7	42.2	41.9
52.5°	1044.9	227.2	50.5	37.4	32.5	33.3	33.6	33.3	31.8	29.5	28.8
54°	1071.8	228.3	47.1	34.8	29.9	31.0	30.6	28.8	25.0	22.8	21.7
55°	1093.5	229.5	45.2	32.9	28.4	28.8	29.1	25.4	20.6	18.3	17.6
57.5°	1136.1	226.8	40.7	28.8	25.0	23.5	23.2	16.8	11.2	9.7	9.0
60°	1114.8	204.8	37.0	24.7	21.3	19.1	15.7	9.3	5.6	4.1	4.1
62.5°	1031.0	173.8	32.9	20.2	17.6	14.6	8.2	5.2	2.6	1.5	1.1
65°	922.3	146.1	29.5	16.1	13.8	9.3	4.5	3.4	1.1	0.0	0.0
67.5°	685.7	108.4	25.0	12.7	10.5	6.0	3.0	1.9	0.4	0.0	0.0
70°	317.6	66.1	21.3	9.7	7.5	4.5	2.2	1.1	0.0	0.0	0.0
72.5°	91.2	41.5	17.6	7.1	5.2	3.7	1.9	0.7	0.4	0.0	0.0
75°	31.8	33.3	13.1	5.2	4.1	2.6	1.5	0.7	0.4	0.0	0.0
77.5°	19.1	26.9	8.2	4.5	3.4	2.2	1.5	0.7	0.4	0.4	0.0
80°	10.8	17.9	5.2	3.7	3.0	1.9	1.1	0.7	0.4	0.4	0.0
82.5°	6.0	8.6	4.1	3.4	2.6	1.9	1.1	0.7	0.4	0.4	0.4
85°	4.9	4.5	3.4	3.0	2.2	1.5	1.1	0.4	0.0	0.0	0.0
87.5°	3.7	3.0	3.0	3.0	2.2	1.5	1.1	0.4	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)