

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: P450715

Luminaire Tested: **GALN-SA1C-740-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450715
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-SA1C-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5828 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

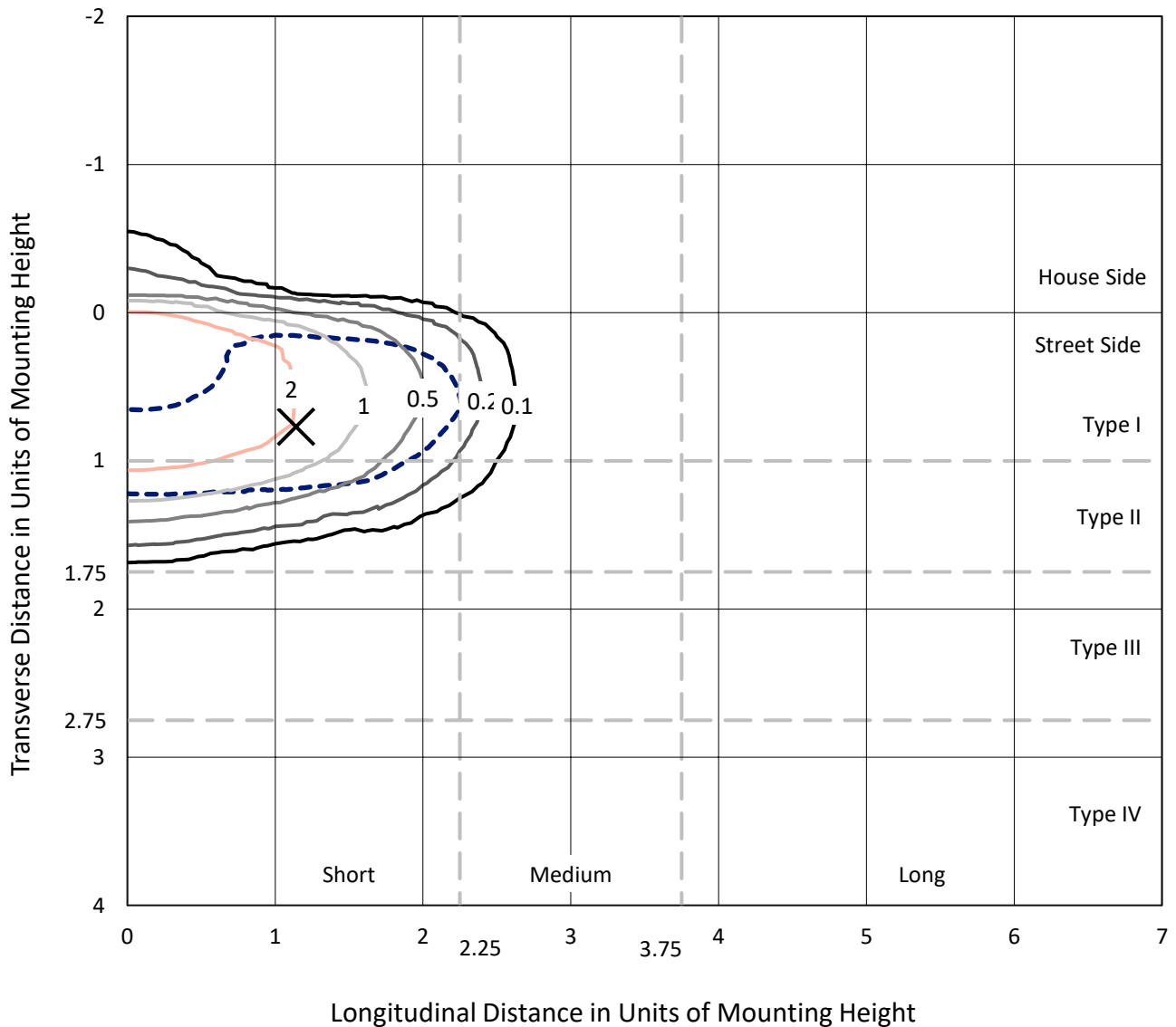
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

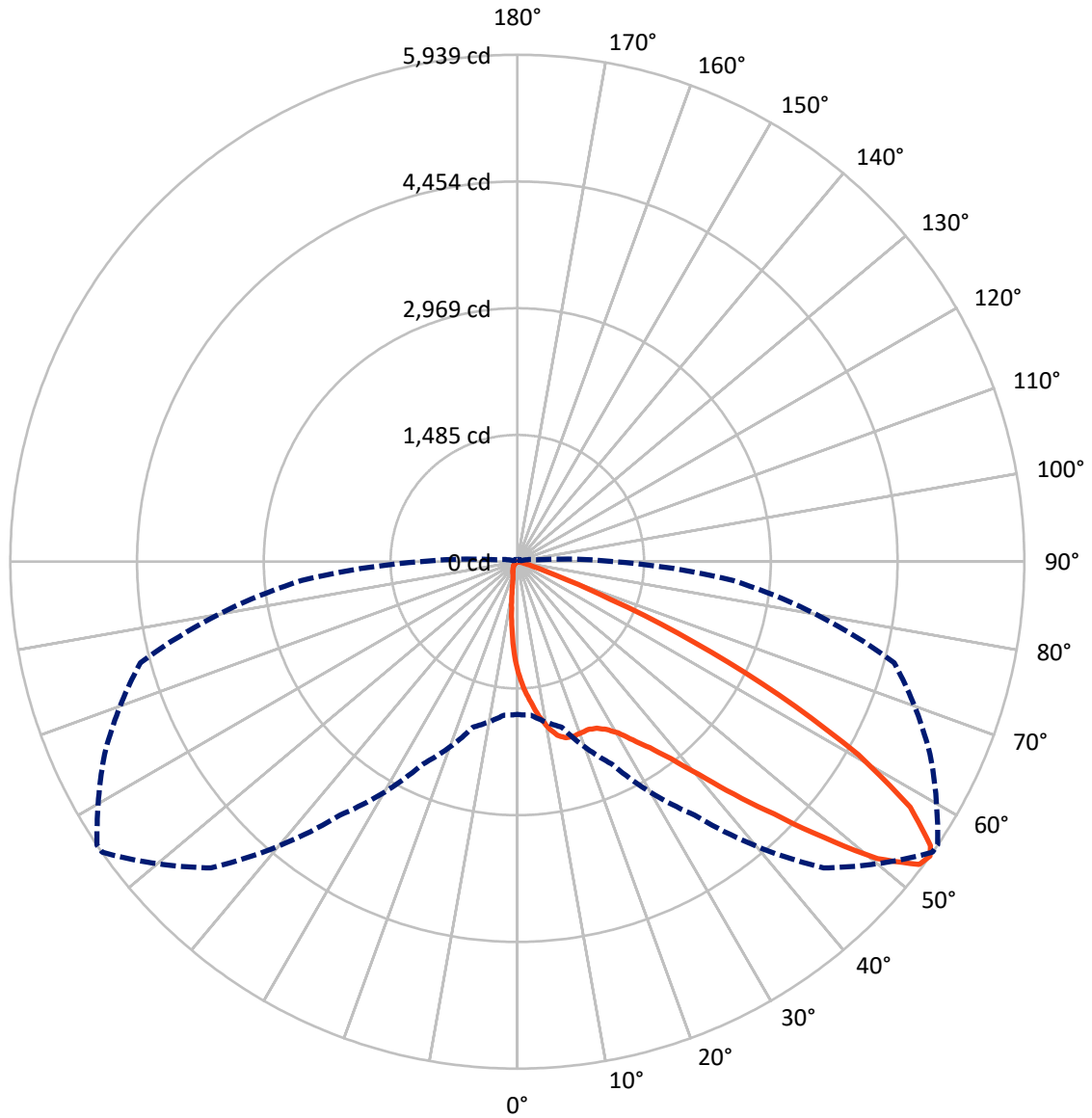
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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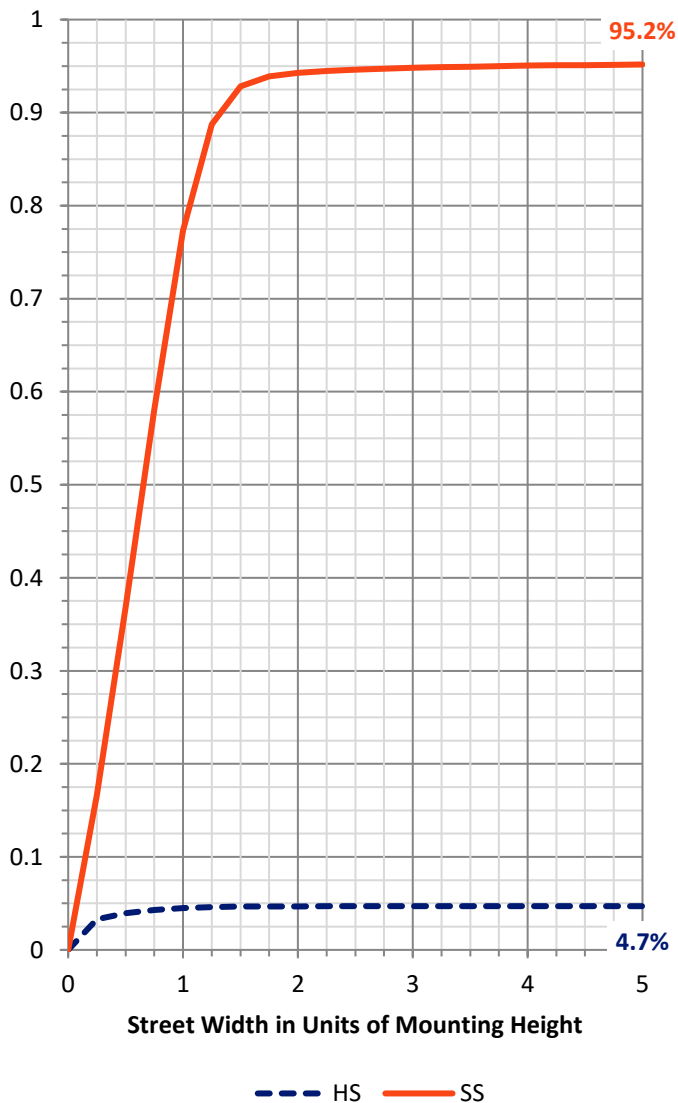
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	275.6	0.0	275.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	5552.4	0.0	5552.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	5828.0	0.0	5828.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	2.0
10°-20°	309.3	5.3
20°-30°	535.7	9.2
30°-40°	924.7	15.9
40°-50°	1573.9	27.0
50°-60°	1557.5	26.7
60°-70°	710.9	12.2
70°-80°	91.3	1.6
80°-90°	10.3	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°	5828.0	100.0
0°-180°	5828.0	100.0

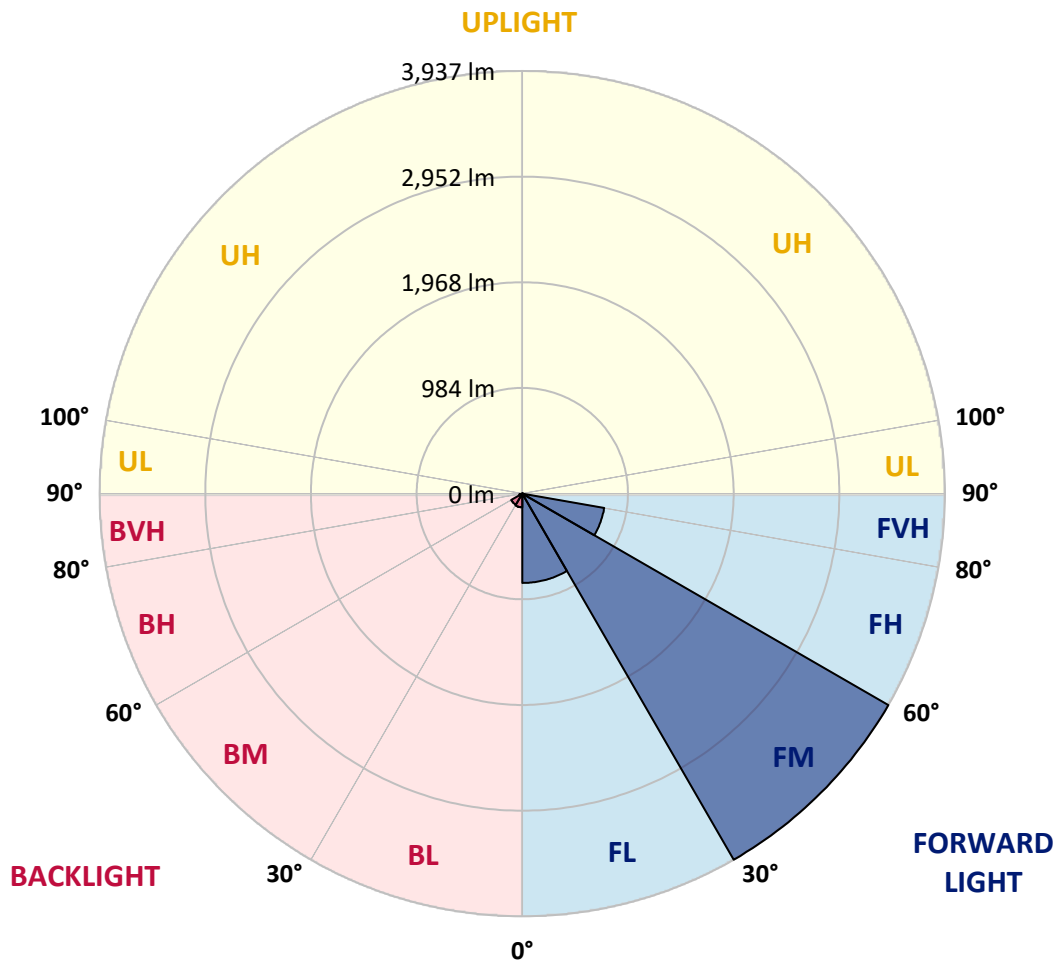


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	832.0	14.3			
FM (30°-60°)	3936.7	67.5			
FH (60°-80°)	774.6	13.3			G1/1800
FVH (80°-90°)	9.2	0.2			G0/10
BL (0°-30°)	127.5	2.2	B1/500		
BM (30°-60°)	119.4	2.0	B0/220		
BH (60°-80°)	27.6	0.5	B0/110		G0/110
BVH (80°-90°)	1.1	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°	1294.8	1294.8	1294.8	1294.8	1294.8	1294.8	1294.8	1294.8	1294.8	1294.8	1294.8
2.5°	1645.6	1634.1	1618.4	1606.2	1577.5	1536.2	1492.6	1492.6	1450.5	1391.9	1332.2
5°	1898.0	1890.5	1875.2	1843.7	1811.5	1753.7	1666.0	1650.7	1575.6	1469.4	1357.7
7.5°	2000.6	2004.2	2004.9	1996.7	1981.3	1924.3	1837.4	1826.8	1706.9	1564.6	1391.1
10°	1902.3	1919.6	1936.5	1970.7	2019.1	2032.9	1983.7	1972.7	1854.7	1660.9	1427.3
12.5°	1756.0	1765.5	1774.9	1828.8	1925.9	2037.2	2088.7	2088.3	1988.4	1756.8	1473.3
15°	1688.0	1696.3	1697.1	1721.0	1805.2	1967.2	2133.5	2139.4	2119.0	1875.2	1522.9
17.5°	1702.2	1708.9	1703.4	1709.2	1753.3	1890.1	2128.4	2148.1	2224.7	1988.8	1567.7
20°	1794.6	1807.5	1786.3	1769.8	1783.2	1869.7	2111.1	2138.6	2299.4	2099.7	1608.6
22.5°	1960.5	1967.6	1940.8	1895.6	1872.0	1912.5	2106.4	2133.5	2363.1	2190.5	1632.2
25°	2144.9	2142.6	2113.1	2062.3	2012.8	1999.0	2137.4	2161.8	2415.8	2272.3	1639.3
27.5°	2329.3	2336.4	2286.9	2224.0	2164.6	2128.8	2207.0	2225.1	2475.2	2365.5	1647.9
30°	2543.6	2532.2	2483.5	2411.5	2343.5	2293.5	2319.1	2324.2	2557.0	2489.0	1670.7
32.5°	2822.4	2790.9	2736.3	2610.5	2561.7	2477.2	2483.5	2489.8	2656.5	2611.3	1698.2
35°	3200.7	3199.1	3092.1	2922.7	2803.9	2698.9	2671.4	2676.5	2807.1	2792.9	1759.2
37.5°	3656.0	3662.3	3540.4	3369.7	3151.1	2984.4	2927.8	2928.6	3035.9	3043.8	1852.0
40°	4026.8	4043.3	3970.6	3855.3	3639.5	3378.8	3283.6	3275.0	3357.6	3347.7	1984.5
42.5°	4186.4	4201.8	4228.9	4269.0	4150.2	3935.2	3710.6	3722.4	3747.6	3678.8	2133.1
45°	4108.2	4132.6	4239.1	4486.8	4598.5	4526.1	4258.4	4217.1	4110.5	4038.6	2282.5
47.5°	3782.2	3841.6	4019.7	4432.2	4823.0	5067.6	4876.5	4821.8	4473.9	4301.2	2377.7
50°	3246.3	3249.8	3497.9	4025.2	4706.6	5409.3	5507.6	5466.7	4812.4	4448.7	2425.7
52.5°	2353.3	2430.8	2658.0	3268.7	4202.5	5357.4	5909.8	5892.9	5161.6	4524.2	2494.9
54°	1789.1	1804.0	2006.1	2612.0	3623.4	5072.3	5934.6	5938.5	5335.0	4569.8	2535.8
55°	1466.6	1430.9	1643.2	2225.1	3228.2	4820.3	5853.6	5872.5	5412.8	4593.4	2566.0
57.5°	695.2	695.6	858.0	1173.7	2021.8	3742.9	5358.6	5425.4	5421.5	4633.9	2659.2
60°	351.9	354.3	390.1	541.8	998.7	2488.2	4430.6	4589.8	5004.3	4639.8	2689.9
62.5°	246.1	243.4	237.5	260.7	420.3	1264.5	3298.6	3437.0	4251.7	4415.3	2592.4
65°	210.8	204.9	188.3	184.8	212.3	503.7	2054.5	2280.2	3246.3	3823.1	2314.8
67.5°	180.1	177.7	162.8	153.7	150.2	219.4	1060.1	1178.8	2218.8	2748.1	1753.3
70°	153.0	151.8	142.7	131.3	121.5	131.3	393.2	487.2	1236.6	1479.6	827.3
72.5°	124.3	125.4	127.0	112.5	102.2	93.2	167.9	195.4	517.5	528.9	289.4
75°	108.9	107.7	107.7	97.9	85.3	69.2	92.4	99.5	158.5	147.1	67.2
77.5°	76.7	73.9	86.5	80.6	71.2	49.2	52.7	55.8	65.7	56.2	31.5
80°	53.1	53.1	55.4	72.3	64.1	35.8	32.2	34.6	38.9	33.4	18.1
82.5°	29.9	30.7	36.2	38.5	37.4	24.0	21.2	21.6	26.0	22.8	11.4
85°	3.5	5.9	20.8	20.4	15.3	10.6	11.8	12.2	16.1	14.2	6.7
87.5°	0.4	0.8	4.3	5.5	3.9	4.3	4.3	4.3	5.5	6.3	4.7
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°	1294.8	1294.8	1294.8	1294.8	1294.8	1294.8	1294.8	1294.8	1294.8	1294.8	1294.8
2.5°	1299.9	1270.0	1198.9	1116.3	1063.6	977.9	905.5	853.2	840.3	815.1	822.6
5°	1298.4	1236.2	1091.1	937.8	774.2	652.3	561.5	489.9	458.5	437.6	423.1
7.5°	1299.1	1202.0	969.2	725.1	529.6	410.1	326.0	282.3	253.2	241.0	242.6
10°	1301.5	1163.5	827.7	537.1	357.4	265.0	213.5	192.7	182.8	181.3	180.9
12.5°	1307.0	1121.4	692.4	398.7	250.1	192.7	173.0	165.9	162.8	162.8	161.6
15°	1312.9	1075.0	580.0	296.5	192.7	165.5	156.5	153.0	151.0	151.0	150.6
17.5°	1312.9	1021.5	475.0	230.0	165.9	152.2	145.1	140.4	138.8	138.8	138.4
20°	1304.6	959.4	381.8	185.2	150.6	139.6	132.5	127.4	125.4	124.6	124.3
22.5°	1275.9	876.4	303.9	159.2	138.0	128.6	119.5	113.6	112.1	111.3	111.7
25°	1224.8	782.9	240.6	140.0	126.6	115.2	107.3	103.0	101.4	101.4	101.8
27.5°	1172.1	685.0	190.7	125.4	112.8	102.6	96.3	93.6	93.2	94.4	94.8
30°	1123.4	586.7	154.5	113.6	100.7	92.0	87.7	86.9	86.9	87.3	87.7
32.5°	1069.1	500.5	129.4	103.4	90.8	83.4	81.0	81.0	81.8	81.8	82.6
35°	1034.9	426.6	113.6	93.6	83.4	77.1	75.5	75.9	77.1	78.6	79.4
37.5°	1016.4	367.6	103.4	85.7	76.3	72.0	70.4	71.2	73.9	76.7	77.1
40°	1018.0	323.2	95.2	79.0	70.8	66.1	64.9	67.2	70.0	72.7	73.1
42.5°	1035.3	290.2	87.3	71.2	66.1	59.4	59.0	61.3	62.5	65.3	65.7
45°	1055.7	266.2	79.0	62.9	57.4	51.5	51.9	53.9	55.4	59.8	60.6
47.5°	1062.0	249.7	69.6	53.5	47.2	45.2	45.6	46.8	49.9	53.9	54.3
50°	1069.1	239.5	60.6	45.2	40.1	39.7	40.1	40.9	42.9	44.4	44.0
52.5°	1099.4	239.1	53.1	39.3	34.2	35.0	35.4	35.0	33.4	31.1	30.3
54°	1127.7	240.2	49.5	36.6	31.5	32.6	32.2	30.3	26.3	24.0	22.8
55°	1150.5	241.4	47.6	34.6	29.9	30.3	30.7	26.7	21.6	19.3	18.5
57.5°	1195.3	238.7	42.9	30.3	26.3	24.8	24.4	17.7	11.8	10.2	9.4
60°	1172.9	215.5	38.9	26.0	22.4	20.1	16.5	9.8	5.9	4.3	4.3
62.5°	1084.8	182.8	34.6	21.2	18.5	15.3	8.7	5.5	2.8	1.6	1.2
65°	970.4	153.7	31.1	16.9	14.5	9.8	4.7	3.5	1.2	0.0	0.0
67.5°	721.5	114.0	26.3	13.4	11.0	6.3	3.1	2.0	0.4	0.0	0.0
70°	334.2	69.6	22.4	10.2	7.9	4.7	2.4	1.2	0.0	0.0	0.0
72.5°	95.9	43.6	18.5	7.5	5.5	3.9	2.0	0.8	0.4	0.0	0.0
75°	33.4	35.0	13.8	5.5	4.3	2.8	1.6	0.8	0.4	0.0	0.0
77.5°	20.1	28.3	8.7	4.7	3.5	2.4	1.6	0.8	0.4	0.4	0.0
80°	11.4	18.9	5.5	3.9	3.1	2.0	1.2	0.8	0.4	0.4	0.0
82.5°	6.3	9.0	4.3	3.5	2.8	2.0	1.2	0.8	0.4	0.4	0.4
85°	5.1	4.7	3.5	3.1	2.4	1.6	1.2	0.4	0.0	0.0	0.0
87.5°	3.9	3.1	3.1	3.1	2.4	1.6	1.2	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)