

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: P647301

Luminaire Tested: **GALN-SA2D-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9536.9 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

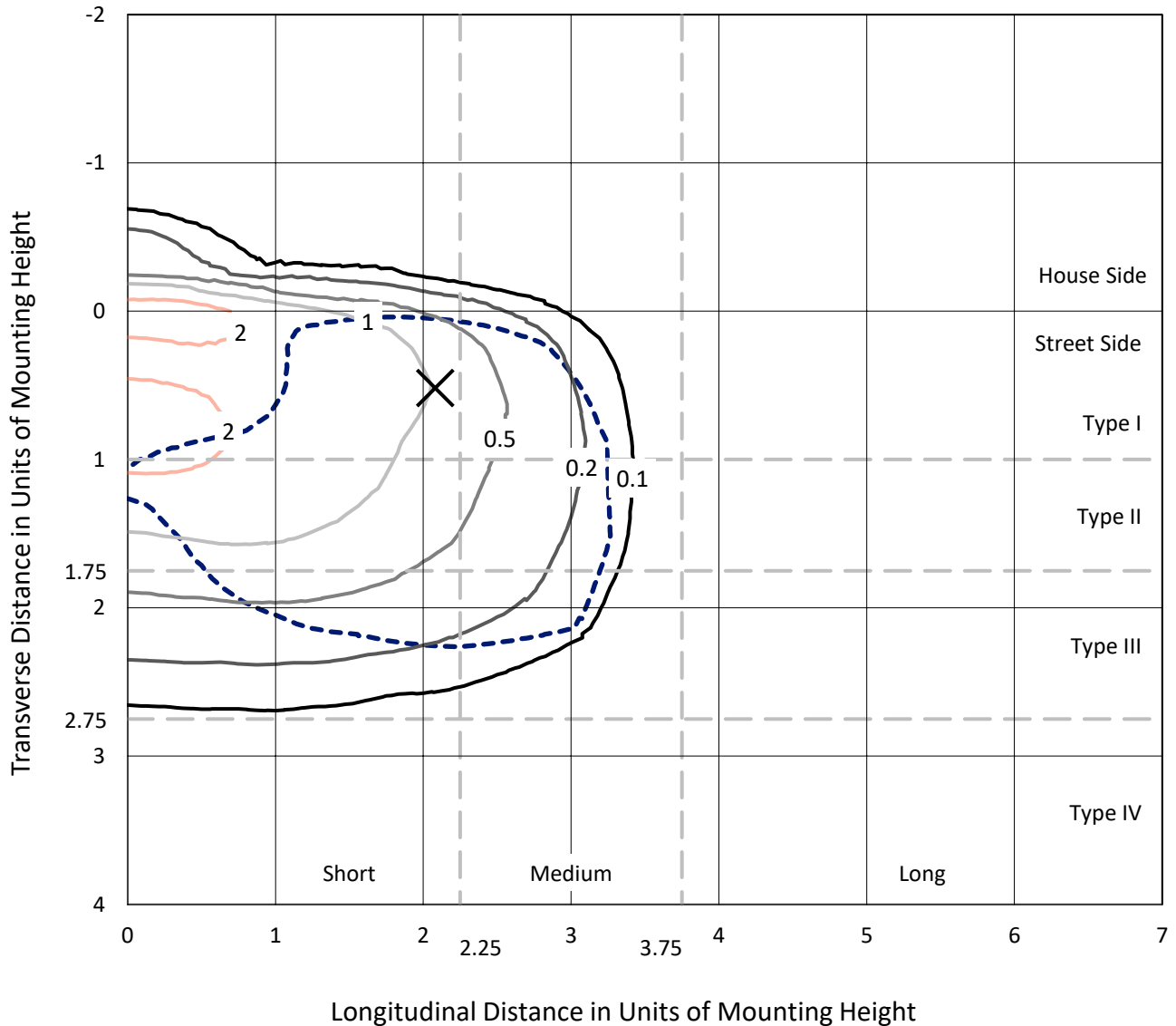
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

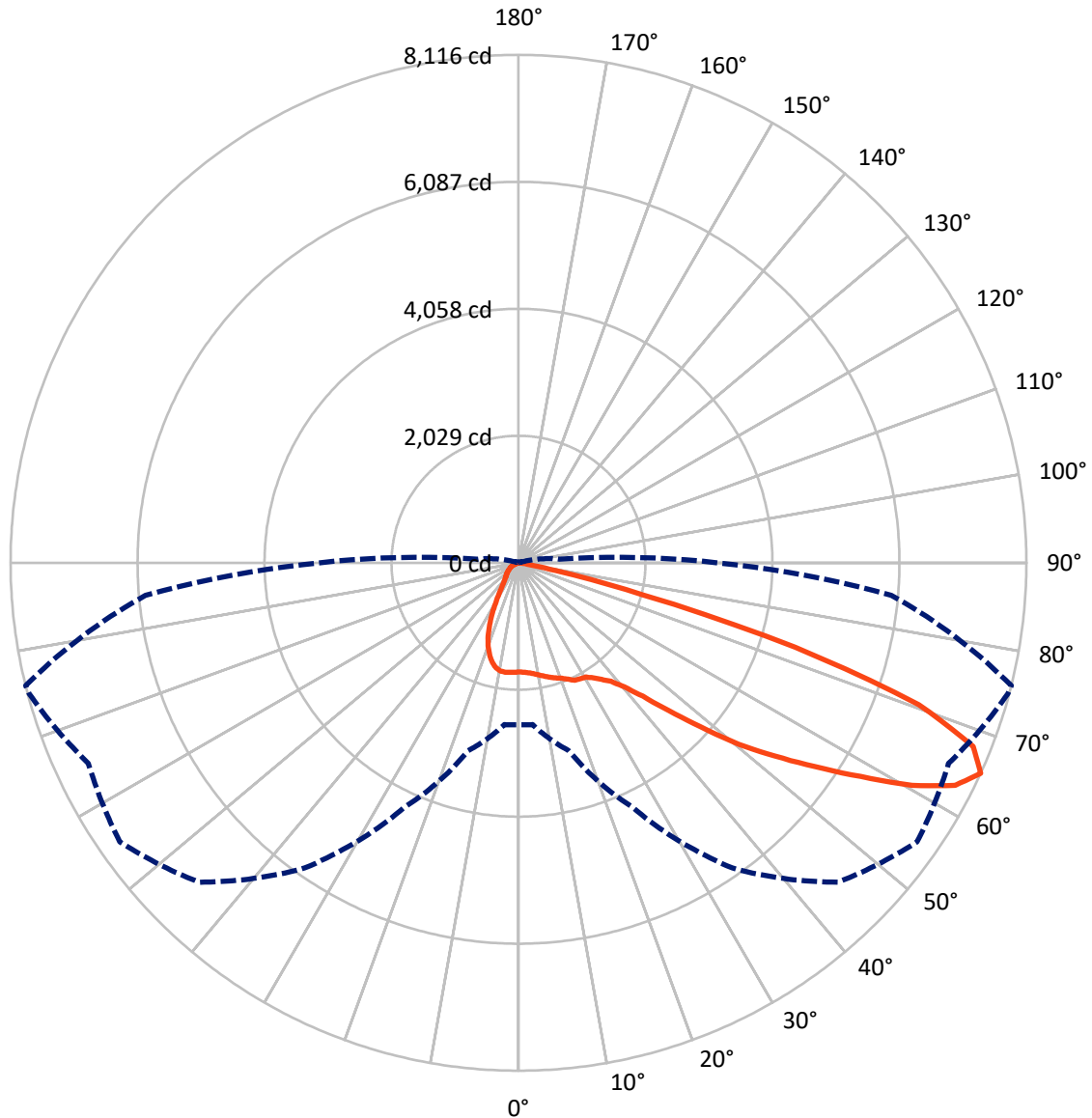
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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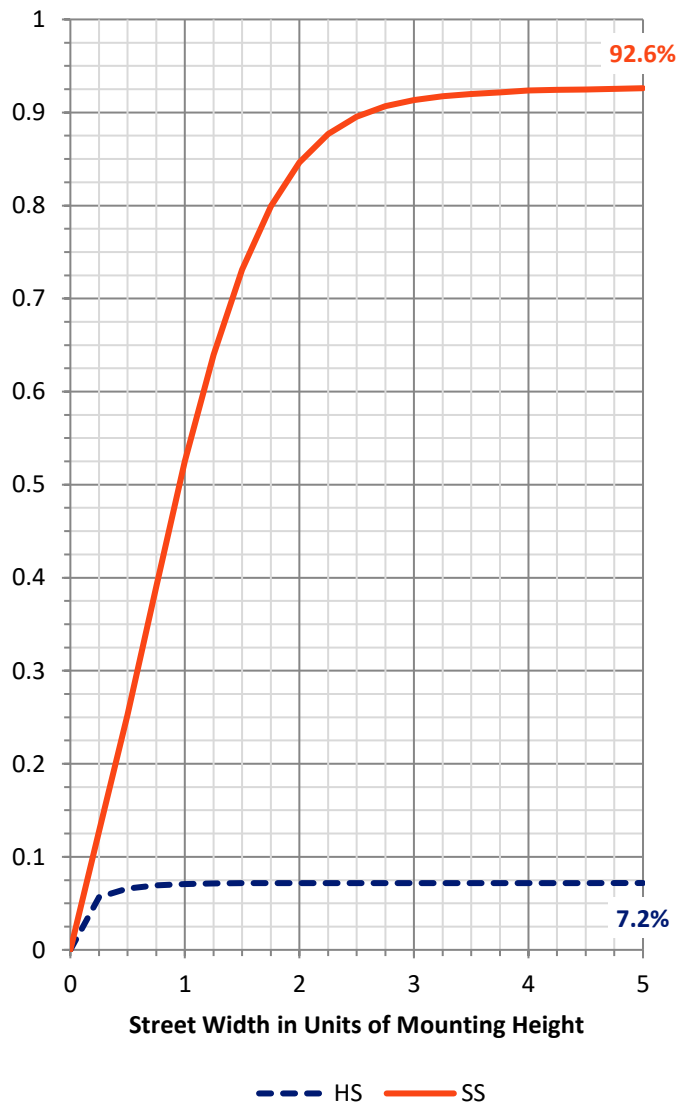
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	688.8	0.0	688.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	8848.2	0.0	8848.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	9536.9	0.0	9536.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.7	1.5
10°-20°	320.0	3.4
20°-30°	515.6	5.4
30°-40°	896.6	9.4
40°-50°	1481.5	15.5
50°-60°	2288.6	24.0
60°-70°	2794.8	29.3
70°-80°	1060.7	11.1
80°-90°	35.4	0.4
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°	9536.9	100.0
0°-180°	9536.9	100.0

Coefficient of Utilization



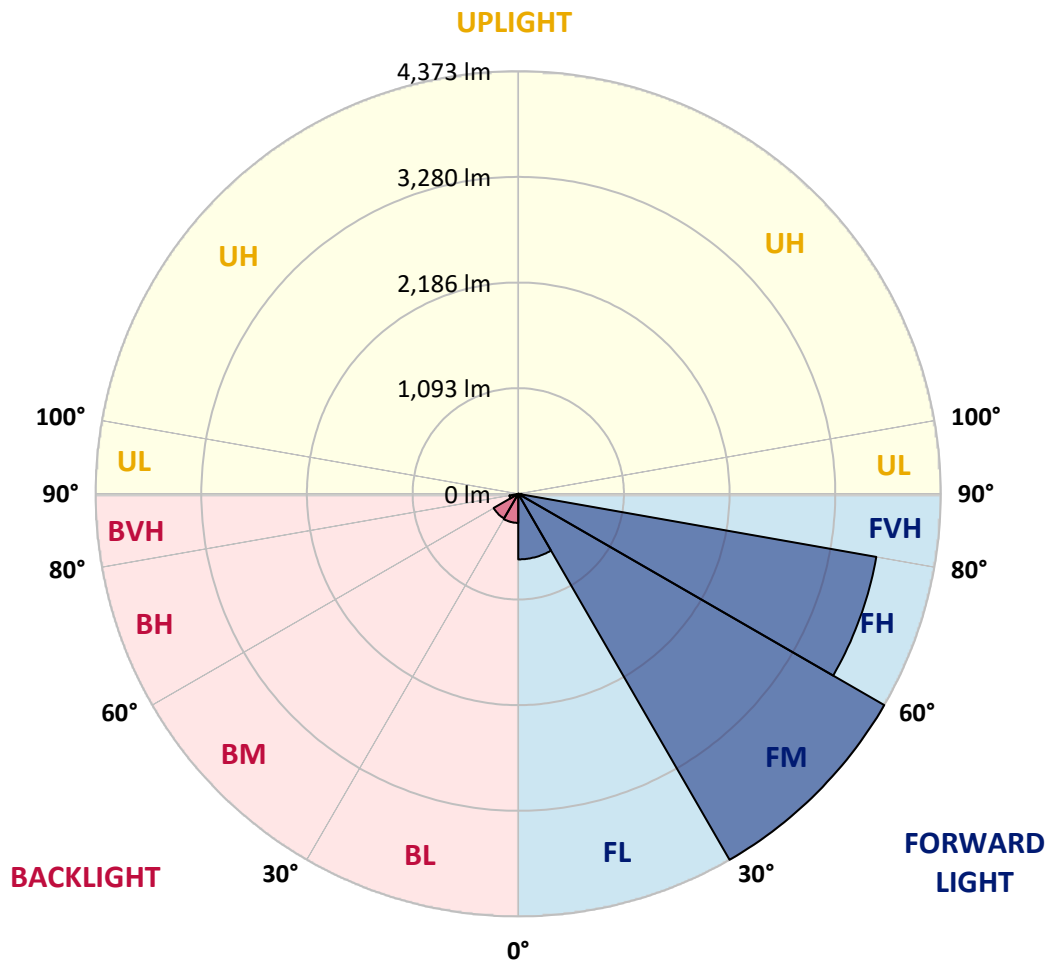
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	678.4	7.1			
FM (30°-60°)	4372.8	45.9			
FH (60°-80°)	3762.0	39.4			G2/5000
FVH (80°-90°)	34.9	0.4			G1/100
BL (0°-30°)	300.9	3.2	B1/500		
BM (30°-60°)	293.9	3.1	B1/1000		
BH (60°-80°)	93.5	1.0	B0/110		G0/110
BVH (80°-90°)	0.5	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6
2.5°	1667.2	1667.9	1671.9	1682.0	1697.5	1710.3	1721.0	1738.6	1750.7	1752.0	1756.0
5°	1552.1	1543.9	1552.1	1578.3	1601.9	1637.6	1681.3	1725.1	1764.1	1766.8	1785.7
7.5°	1422.8	1429.5	1442.3	1469.2	1513.7	1568.2	1631.5	1709.6	1783.7	1790.4	1827.4
10°	1291.5	1306.3	1327.1	1368.2	1430.1	1500.9	1587.1	1698.8	1814.6	1824.1	1888.0
12.5°	1170.3	1177.0	1202.6	1257.8	1334.5	1434.2	1553.4	1692.8	1849.0	1860.4	1952.6
15°	1077.3	1086.1	1108.3	1158.1	1243.6	1371.6	1525.8	1690.7	1882.6	1898.8	2017.3
17.5°	1059.8	1065.2	1074.7	1108.3	1183.0	1321.8	1500.9	1690.1	1915.0	1934.5	2077.2
20°	1131.9	1127.1	1117.7	1114.4	1155.5	1283.4	1482.7	1695.4	1945.9	1968.1	2140.6
22.5°	1312.3	1318.4	1263.2	1197.8	1184.4	1277.3	1480.0	1721.0	1995.1	2021.3	2211.3
25°	1695.4	1649.0	1562.8	1406.6	1288.7	1314.3	1510.3	1781.6	2052.3	2081.3	2275.2
27.5°	2119.0	2104.9	1970.9	1713.7	1494.1	1392.5	1564.1	1828.1	2071.2	2100.8	2311.6
30°	2535.1	2552.0	2398.4	2114.3	1792.4	1537.2	1614.6	1845.6	2088.0	2119.0	2358.0
32.5°	2920.9	2941.1	2806.4	2525.0	2143.9	1787.7	1701.5	1913.7	2158.7	2190.4	2435.4
35°	3224.6	3227.3	3125.7	2901.4	2527.7	2092.0	1889.4	2032.8	2254.3	2291.4	2517.6
37.5°	3503.4	3499.3	3380.1	3186.9	2847.5	2394.4	2125.7	2170.2	2363.4	2401.8	2636.1
40°	3710.1	3712.8	3674.4	3492.6	3145.9	2673.8	2312.9	2298.7	2546.6	2606.5	2808.5
42.5°	3848.1	3873.0	3891.9	3799.7	3520.8	3017.9	2600.4	2574.2	2864.4	2914.2	3052.2
45°	3959.9	4004.3	4098.6	4093.8	3881.1	3440.0	2995.0	2941.1	3314.8	3368.0	3362.7
47.5°	4041.4	4086.5	4242.7	4337.0	4219.8	3849.5	3491.2	3444.8	3852.8	3910.7	3705.4
50°	4083.1	4137.0	4336.3	4518.8	4484.4	4244.0	4056.9	4059.5	4502.6	4558.5	4102.6
52.5°	3985.5	4055.5	4386.1	4714.7	4781.4	4621.7	4586.7	4675.6	5081.0	5128.8	4461.5
55°	3673.7	3761.9	4318.1	4881.7	5125.4	5067.5	5188.7	5324.1	5713.2	5744.2	4829.9
57.5°	3476.4	3570.0	4117.4	5023.7	5538.9	5627.7	5819.6	5918.6	6365.7	6444.5	5252.7
60°	3310.1	3383.5	3952.5	5054.0	5959.0	6313.2	6499.7	6602.0	7171.0	7222.2	5717.9
62.5°	3033.3	3117.5	3673.7	4842.6	6170.4	6862.0	7248.5	7202.7	7793.8	7829.5	6003.4
65°	2588.3	2595.7	3108.1	4311.4	5952.3	7218.2	7774.3	7582.4	8091.4	8115.7	5981.3
67.5°	1931.8	2003.1	2391.0	3388.9	5027.8	6913.8	7944.7	7592.5	7903.6	7836.3	5506.5
70°	1244.3	1298.8	1620.7	2349.9	3625.2	5769.8	7379.8	7072.1	6936.7	6787.2	4507.3
72.5°	574.3	644.4	962.9	1342.6	2150.0	4110.0	5990.7	5745.6	4992.8	4623.8	2865.1
75°	250.5	268.0	475.4	708.4	1008.0	2173.5	3949.8	3566.6	2255.0	2059.8	1146.7
77.5°	152.8	164.3	249.2	379.8	395.9	828.2	2127.7	1556.1	696.9	614.7	311.1
80°	103.7	116.5	181.1	198.6	135.3	231.0	798.6	415.5	140.7	134.7	66.6
82.5°	50.5	64.0	134.0	111.1	58.6	74.1	232.3	88.9	41.1	38.4	23.6
85°	7.4	12.8	75.4	72.7	26.2	17.5	41.1	22.2	14.2	13.5	10.8
87.5°	0.0	0.0	25.6	11.4	2.7	2.7	4.7	4.7	5.4	4.7	5.4
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°	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6	1744.6
2.5°	1758.1	1761.4	1748.7	1730.5	1710.9	1691.4	1663.8	1638.9	1624.1	1632.9	1611.3
5°	1789.7	1787.0	1753.4	1698.2	1624.7	1536.6	1449.0	1374.2	1350.0	1313.6	1309.6
7.5°	1833.5	1826.1	1754.7	1628.1	1462.5	1296.8	1135.3	1028.2	966.9	915.1	916.4
10°	1894.8	1873.2	1739.2	1504.9	1232.2	982.4	776.3	634.9	573.7	554.1	538.7
12.5°	1958.0	1916.3	1696.1	1338.6	959.5	671.3	472.0	385.8	348.1	336.0	334.7
15°	2014.6	1948.7	1620.7	1138.6	697.6	428.9	321.9	293.5	288.8	289.6	288.8
17.5°	2070.5	1974.3	1516.4	926.5	474.0	307.7	276.7	270.0	272.0	274.8	274.0
20°	2117.0	1979.6	1383.0	707.0	335.4	270.0	259.9	258.5	260.6	262.6	262.6
22.5°	2167.5	1983.7	1224.8	489.5	274.0	251.2	245.8	245.8	248.4	251.2	251.8
25°	2205.2	1961.4	1035.6	351.5	241.7	232.9	230.3	231.0	233.6	235.0	234.4
27.5°	2211.3	1898.8	834.9	269.4	219.5	210.8	208.0	210.8	207.4	209.4	208.0
30°	2216.6	1819.4	631.6	226.9	199.3	185.8	181.8	177.7	175.1	171.7	171.0
32.5°	2233.4	1725.7	461.3	204.0	180.5	165.6	156.2	144.8	136.0	133.3	132.6
35°	2240.9	1613.3	338.7	185.8	163.6	147.4	130.6	114.5	101.7	96.9	100.3
37.5°	2269.1	1504.2	262.6	172.3	148.8	128.6	107.0	86.8	74.8	72.0	73.4
40°	2327.1	1385.8	220.2	160.9	136.0	111.1	84.9	65.3	57.2	54.6	53.9
42.5°	2419.9	1267.9	195.9	150.2	123.2	93.6	66.6	51.2	44.5	42.4	42.4
45°	2533.1	1154.8	179.1	138.7	109.8	75.4	52.5	41.1	37.0	35.7	35.7
47.5°	2681.9	1055.8	165.0	127.2	95.0	59.9	42.4	35.7	33.0	33.7	34.4
50°	2832.7	982.4	149.5	114.5	78.1	49.2	36.3	31.6	31.0	31.6	31.6
52.5°	2946.5	939.3	128.6	96.9	61.3	41.1	32.3	29.6	29.0	27.6	27.6
55°	3100.1	929.9	102.3	78.8	48.5	34.4	29.0	26.9	24.9	23.6	22.9
57.5°	3297.3	940.6	78.8	61.3	37.7	28.3	25.6	22.2	19.5	16.8	16.8
60°	3419.8	916.4	61.3	47.1	27.6	22.9	19.5	16.1	12.8	10.8	10.1
62.5°	3380.8	814.1	48.5	35.0	19.5	16.8	12.8	10.8	7.4	5.4	4.7
65°	3179.4	657.2	39.1	24.3	14.2	10.1	6.7	6.7	3.4	0.7	0.0
67.5°	2782.9	486.8	31.0	16.1	8.1	4.7	3.4	2.0	0.0	0.0	0.0
70°	2265.1	351.5	24.3	10.1	4.7	3.4	1.3	0.7	0.0	0.0	0.0
72.5°	1438.2	201.3	18.9	6.0	3.4	1.3	0.0	0.0	0.0	0.0	0.0
75°	556.2	78.8	12.8	4.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	157.5	37.0	7.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	41.1	16.1	4.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	19.5	6.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.4	2.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	0.7	0.0	0.0	0.0	0.0	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)