

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: P647277

Luminaire Tested: **GALN-SA2D-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10020 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

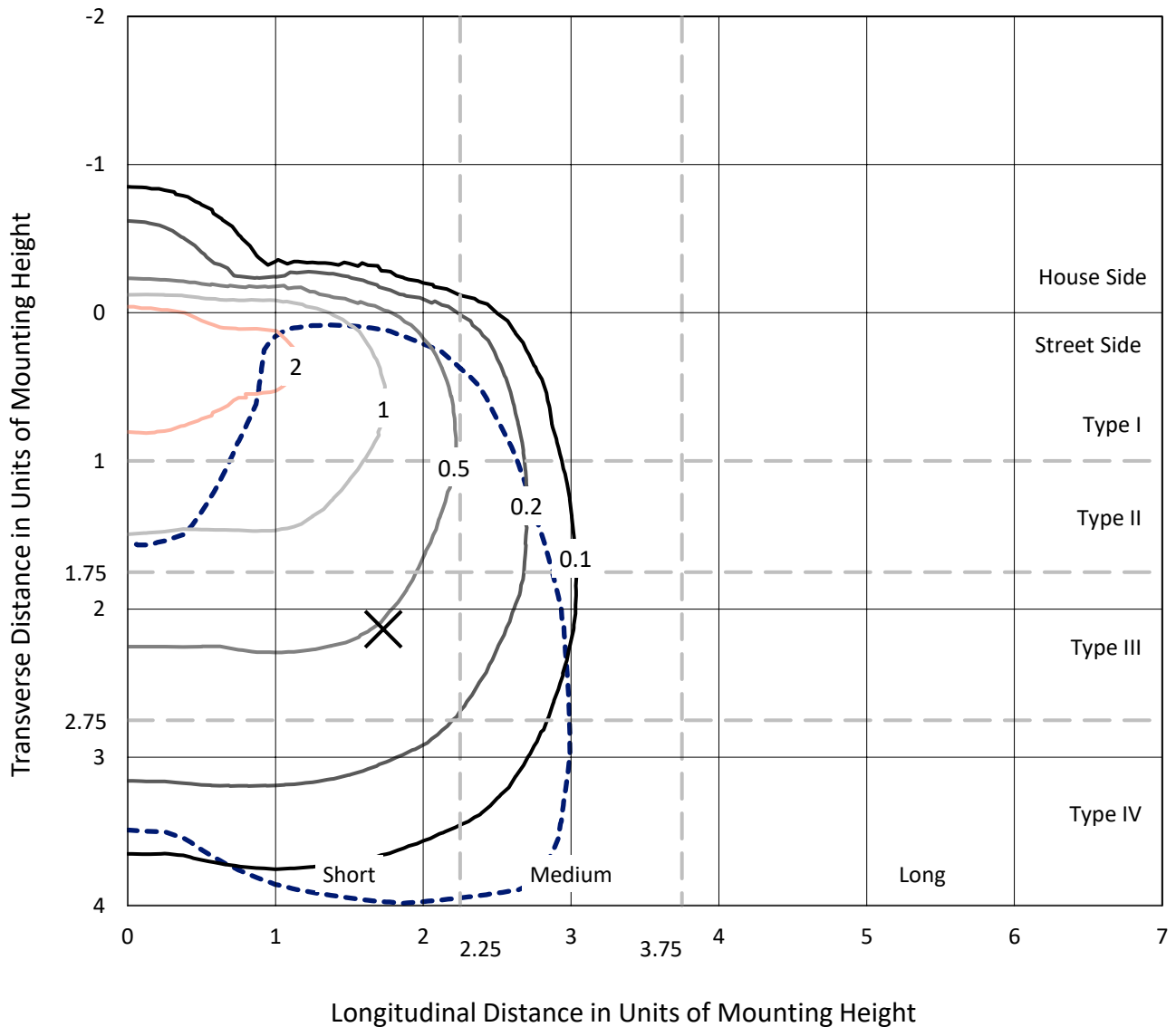
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647277
 CATALOG NUMBER: GALN-SA2D-835-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

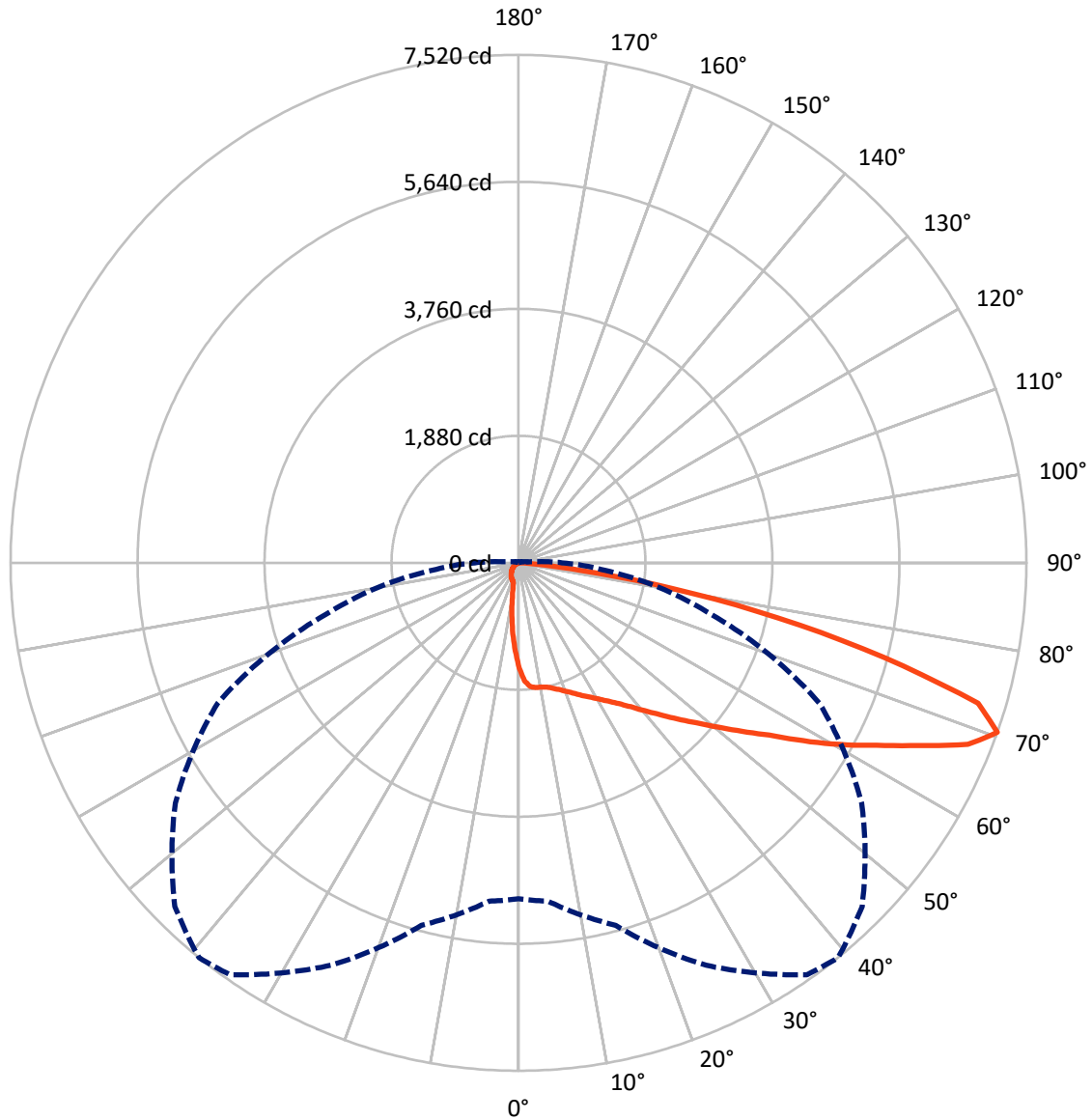
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P647277
CATALOG NUMBER: GALN-SA2D-835-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P647277
 CATALOG NUMBER: GALN-SA2D-835-U-SL4-HSS

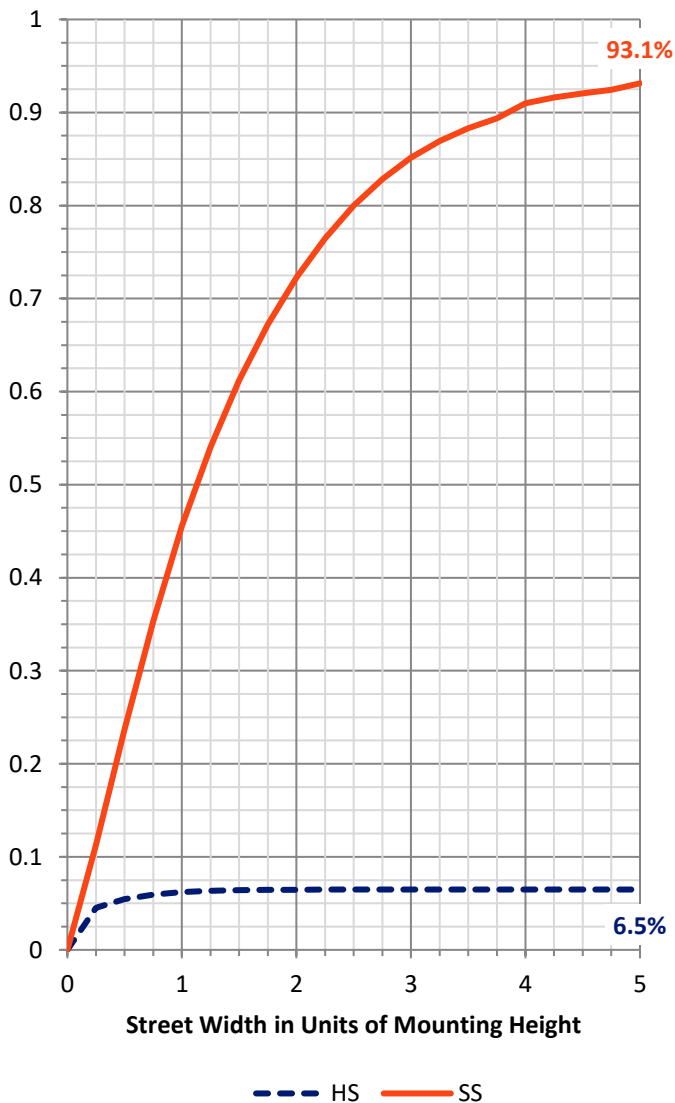
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	653.3	0.0	653.3
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	9366.7	0.0	9366.7
	% Fixture	93.5	0.0	93.5
Total	Lumens	10020.0	0.0	10020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	1.3
10°-20°	346.5	3.5
20°-30°	580.6	5.8
30°-40°	900.4	9.0
40°-50°	1426.8	14.2
50°-60°	2091.5	20.9
60°-70°	2680.8	26.8
70°-80°	1684.5	16.8
80°-90°	175.5	1.8
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°	10020.0	100.0
0°-180°	10020.0	100.0

Coefficient of Utilization



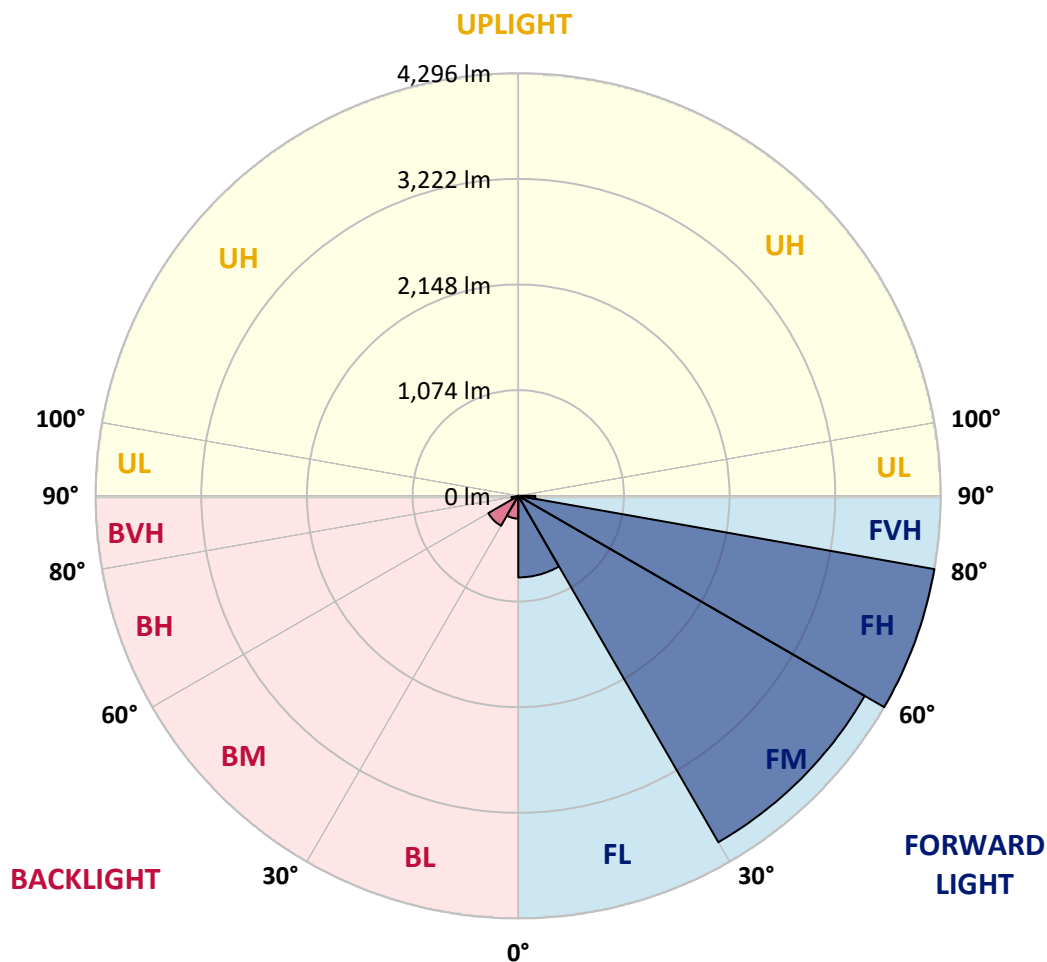
REPORT NUMBER: P647277
 CATALOG NUMBER: GALN-SA2D-835-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	829.1	8.3			
FM (30°-60°)	4067.1	40.6			
FH (60°-80°)	4296.3	42.9			G2/5000
FVH (80°-90°)	174.2	1.7			G2/225
BL (0°-30°)	231.3	2.3	B1/500		
BM (30°-60°)	351.6	3.5	B1/1000		
BH (60°-80°)	69.1	0.7	B0/110		G0/110
BVH (80°-90°)	1.3	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 IV Short





REPORT NUMBER: P647277

CATALOG NUMBER: GALN-SA2D-835-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5
2.5°	1806.5	1800.5	1792.4	1783.0	1756.0	1751.3	1735.2	1700.8	1659.7	1626.1	1579.6
5°	1892.0	1895.4	1889.4	1872.5	1853.0	1841.5	1821.3	1768.2	1715.0	1647.0	1570.9
7.5°	1911.6	1918.4	1910.9	1894.8	1875.9	1863.8	1847.6	1801.8	1739.9	1662.5	1558.1
10°	1909.6	1917.6	1912.9	1898.1	1882.6	1871.2	1853.7	1817.3	1767.5	1686.0	1562.2
12.5°	1906.2	1916.9	1916.3	1908.9	1896.1	1887.3	1876.5	1844.3	1797.8	1720.3	1584.3
15°	1896.7	1910.2	1922.3	1928.5	1929.1	1929.1	1915.6	1881.3	1836.8	1765.5	1613.3
17.5°	1900.8	1916.3	1946.6	1964.1	1976.2	1974.9	1960.7	1923.7	1874.6	1811.9	1643.6
20°	1925.7	1946.6	1989.1	2024.1	2036.1	2032.1	2013.2	1970.2	1914.3	1851.6	1673.2
22.5°	1987.0	2005.8	2059.1	2100.1	2108.9	2098.1	2071.2	2012.5	1962.1	1894.8	1708.9
25°	2078.6	2100.8	2150.0	2180.9	2180.9	2174.9	2137.1	2068.5	2015.9	1954.7	1755.4
27.5°	2189.7	2208.5	2257.0	2284.6	2268.4	2251.0	2213.2	2130.4	2079.9	2030.1	1811.2
30°	2302.1	2314.2	2365.4	2377.5	2360.7	2338.5	2298.1	2215.3	2170.8	2132.4	1892.0
32.5°	2408.5	2434.7	2477.2	2474.5	2451.6	2440.8	2403.8	2315.6	2290.7	2286.6	2005.2
35°	2514.9	2535.1	2572.8	2582.3	2562.1	2560.0	2533.1	2467.8	2468.4	2494.7	2181.6
37.5°	2606.5	2624.6	2669.1	2689.9	2694.0	2704.1	2693.3	2650.2	2711.5	2783.6	2415.2
40°	2683.2	2708.8	2765.4	2801.7	2843.5	2880.5	2882.5	2891.9	3015.2	3139.0	2720.2
42.5°	2743.2	2778.9	2861.0	2928.3	3023.9	3071.1	3108.7	3160.6	3368.0	3553.2	3079.8
45°	2821.2	2862.3	2964.7	3070.4	3219.9	3297.3	3349.8	3488.5	3782.8	4035.3	3448.8
47.5°	2950.5	2972.1	3076.4	3230.7	3427.3	3537.7	3640.0	3850.1	4227.8	4454.1	3755.8
50°	3116.8	3131.0	3209.8	3423.9	3678.4	3823.9	4010.4	4257.5	4689.8	4801.5	3929.6
52.5°	3300.7	3305.4	3364.6	3636.6	3959.9	4143.0	4351.8	4656.7	5066.2	5049.3	4044.7
55°	3514.1	3507.4	3557.9	3867.6	4293.2	4502.6	4745.6	5065.5	5392.7	5225.0	4110.7
57.5°	3758.6	3740.3	3789.5	4173.9	4720.1	4970.5	5217.6	5418.3	5645.9	5372.5	4142.3
60°	4014.4	3978.0	4036.6	4518.1	5223.0	5460.7	5666.1	5720.0	5912.5	5489.7	4087.8
62.5°	4218.4	4219.1	4328.2	4884.4	5740.2	5948.2	6057.3	6105.8	6142.1	5464.1	3800.9
65°	4536.9	4547.7	4722.0	5392.7	6338.7	6519.2	6594.0	6436.3	6152.2	5146.3	3370.0
67.5°	4865.5	4899.9	5219.0	6093.0	7030.2	7175.6	7079.4	6500.3	5877.5	4421.1	2555.3
70°	4972.5	5029.1	5555.0	6575.1	7445.0	7520.4	7194.5	6202.1	4913.3	2955.9	1286.1
72.5°	4556.4	4648.0	5361.7	6399.3	7180.4	7115.0	6437.0	5201.5	3123.5	1122.4	392.5
75°	3213.1	3253.5	4456.1	5308.5	5775.2	5590.0	4896.5	3353.2	1284.7	315.1	134.7
77.5°	1659.1	1639.5	2650.2	3522.2	4118.7	3926.8	3206.4	1735.8	486.8	131.3	83.5
80°	857.9	871.9	1146.7	1845.6	2514.2	2313.5	1709.6	804.6	259.3	72.7	64.0
82.5°	480.8	451.2	659.2	805.9	1175.6	921.8	655.8	569.6	113.1	43.8	60.6
85°	87.5	91.6	361.6	435.7	408.0	259.3	211.4	380.5	33.0	24.3	42.4
87.5°	1.3	1.3	70.0	125.2	79.5	36.3	66.6	54.6	6.7	9.4	7.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647277

CATALOG NUMBER: GALN-SA2D-835-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5
2.5°	1556.1	1530.5	1482.7	1435.6	1375.6	1326.5	1293.4	1259.1	1224.1	1226.8	1234.9
5°	1529.1	1484.7	1390.5	1290.8	1195.2	1109.0	1024.2	948.1	917.0	888.8	890.1
7.5°	1502.2	1439.5	1301.6	1145.4	1000.6	853.8	747.4	659.8	613.4	578.4	568.3
10°	1490.0	1407.3	1220.1	1005.3	799.9	639.6	503.0	431.6	376.4	358.8	363.6
12.5°	1495.5	1391.1	1146.7	878.7	634.3	445.8	350.2	313.7	301.7	299.7	298.3
15°	1505.6	1379.6	1074.7	738.6	466.0	331.3	294.3	287.5	286.2	284.9	285.5
17.5°	1519.0	1369.5	997.9	607.4	357.5	289.6	278.7	275.4	274.8	274.8	274.8
20°	1532.5	1358.1	912.4	490.2	298.3	273.3	266.6	264.7	263.9	263.9	263.2
22.5°	1548.0	1348.0	825.5	385.2	274.8	261.9	255.9	254.6	253.8	253.1	253.1
25°	1570.2	1335.2	733.3	315.1	259.9	251.2	245.1	243.7	243.0	240.4	241.1
27.5°	1599.8	1325.8	638.3	272.0	246.4	237.7	233.6	231.6	230.3	228.2	228.9
30°	1640.2	1317.7	537.3	248.4	231.0	223.5	219.5	218.1	216.8	214.8	214.8
32.5°	1710.2	1321.1	431.0	229.6	216.8	208.0	204.0	202.6	201.3	199.3	199.3
35°	1815.3	1340.6	344.8	213.4	200.0	191.2	187.2	187.2	185.2	182.4	181.8
37.5°	1987.0	1390.5	276.7	197.9	183.8	175.7	171.0	169.7	167.6	163.6	162.9
40°	2189.7	1467.9	232.9	182.4	169.0	160.9	156.9	152.8	147.4	143.4	142.7
42.5°	2444.2	1547.3	202.0	167.0	154.9	147.4	142.7	136.0	127.9	122.5	121.8
45°	2709.5	1620.0	181.1	152.8	141.4	135.3	130.0	119.2	109.1	102.3	101.7
47.5°	2907.4	1633.5	164.3	139.4	130.0	123.9	116.5	103.0	89.6	83.5	81.5
50°	3001.0	1568.2	146.8	125.9	118.5	111.7	102.3	86.8	72.0	64.7	63.3
52.5°	3034.0	1455.0	132.6	113.8	107.0	99.0	87.5	70.0	56.5	49.2	48.5
55°	3020.6	1312.3	119.9	102.3	93.6	84.2	72.7	55.9	41.7	35.7	34.4
57.5°	2949.9	1130.5	107.0	90.9	80.1	70.7	57.9	41.7	28.3	22.9	22.2
60°	2759.3	882.8	94.3	78.1	68.0	57.9	45.8	29.6	17.5	12.8	12.8
62.5°	2437.5	655.1	82.1	65.3	57.2	46.4	32.3	18.9	9.4	6.7	6.0
65°	2036.8	483.4	68.7	55.2	47.8	36.3	22.9	11.4	4.7	2.0	1.3
67.5°	1421.4	298.3	57.2	45.1	39.1	26.2	14.2	4.7	2.0	0.0	0.0
70°	645.7	142.0	43.8	34.4	29.6	18.9	7.4	2.7	1.3	0.0	0.0
72.5°	200.7	74.8	31.0	24.9	20.2	12.1	4.1	2.0	1.3	0.0	0.0
75°	92.9	47.8	19.5	13.5	11.4	6.0	2.7	1.3	0.7	0.0	0.0
77.5°	69.4	37.0	11.4	7.4	6.0	4.1	2.0	1.3	0.7	0.0	0.0
80°	60.6	18.9	6.7	4.7	3.4	2.7	1.3	0.7	0.0	0.0	0.0
82.5°	54.6	9.4	4.1	2.7	2.0	1.3	0.7	0.7	0.0	0.0	0.0
85°	29.6	5.4	2.7	2.0	1.3	0.7	0.7	0.0	0.0	0.0	0.0
87.5°	5.4	2.7	2.0	1.3	1.3	0.7	0.7	0.7	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)