

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: P647361

Luminaire Tested: **GALN-SA3D-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13080.8 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

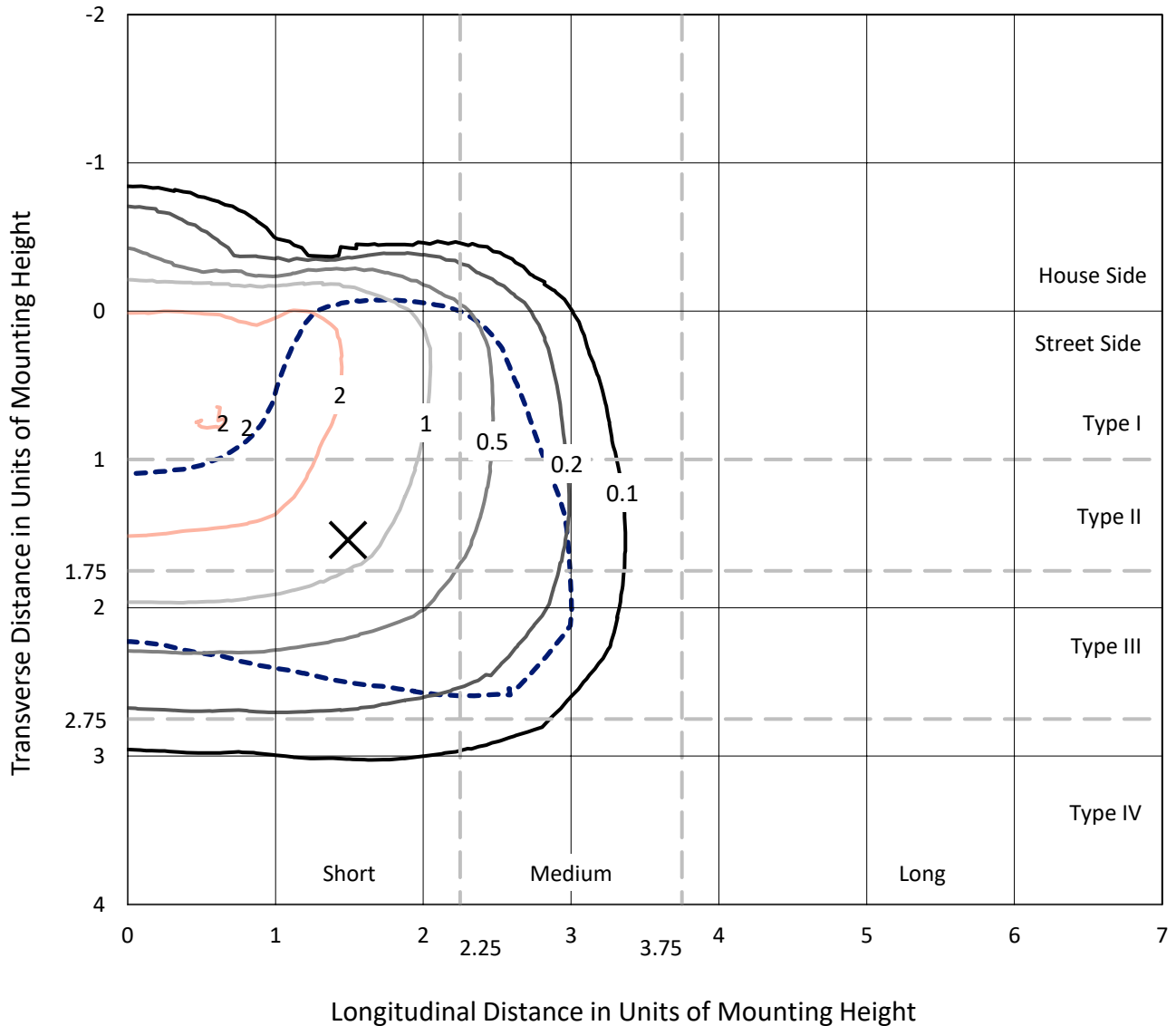
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647361
 CATALOG NUMBER: GALN-SA3D-835-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

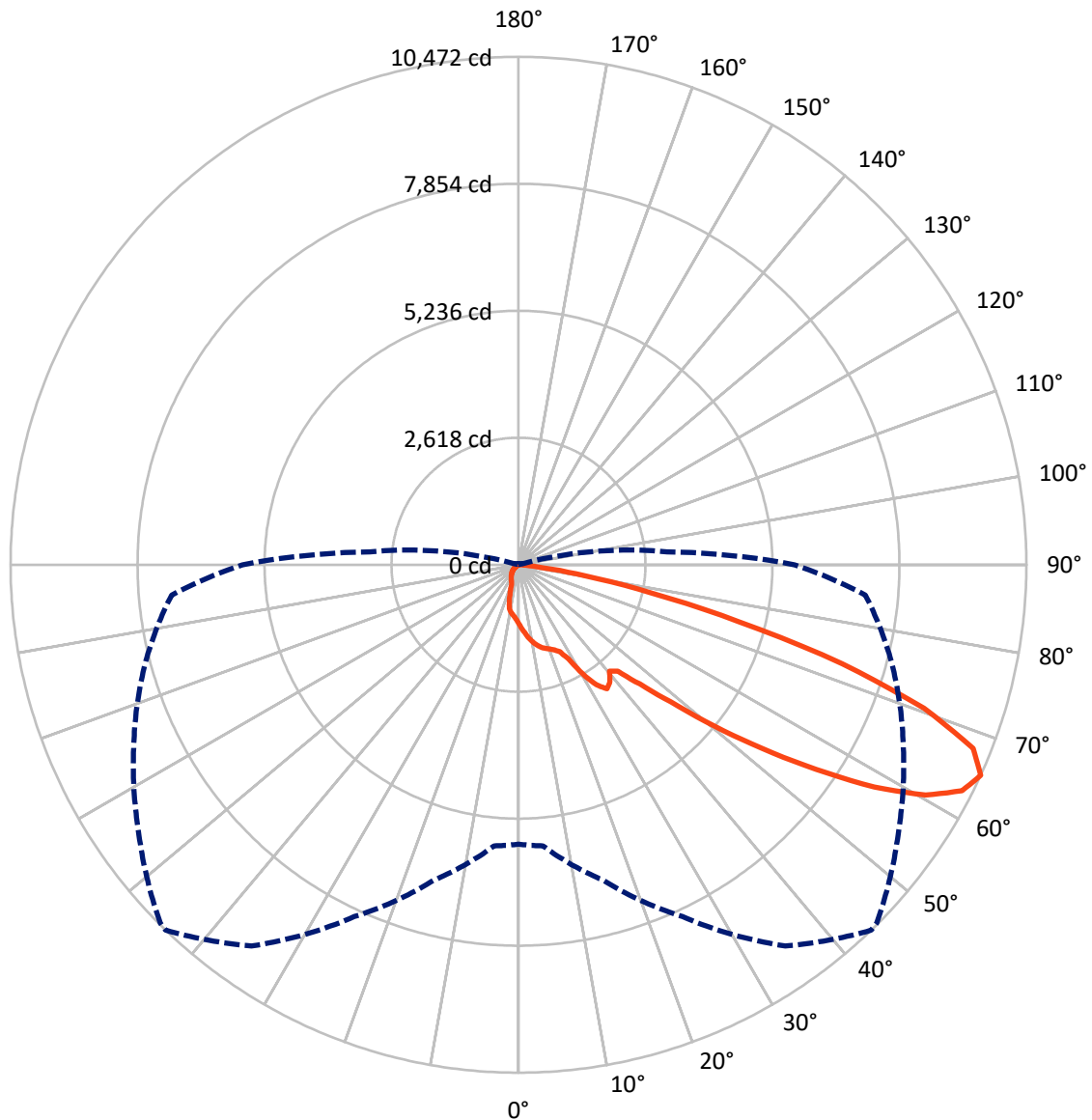
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

REPORT NUMBER: P647361
CATALOG NUMBER: GALN-SA3D-835-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P647361
 CATALOG NUMBER: GALN-SA3D-835-U-T4W-HSS

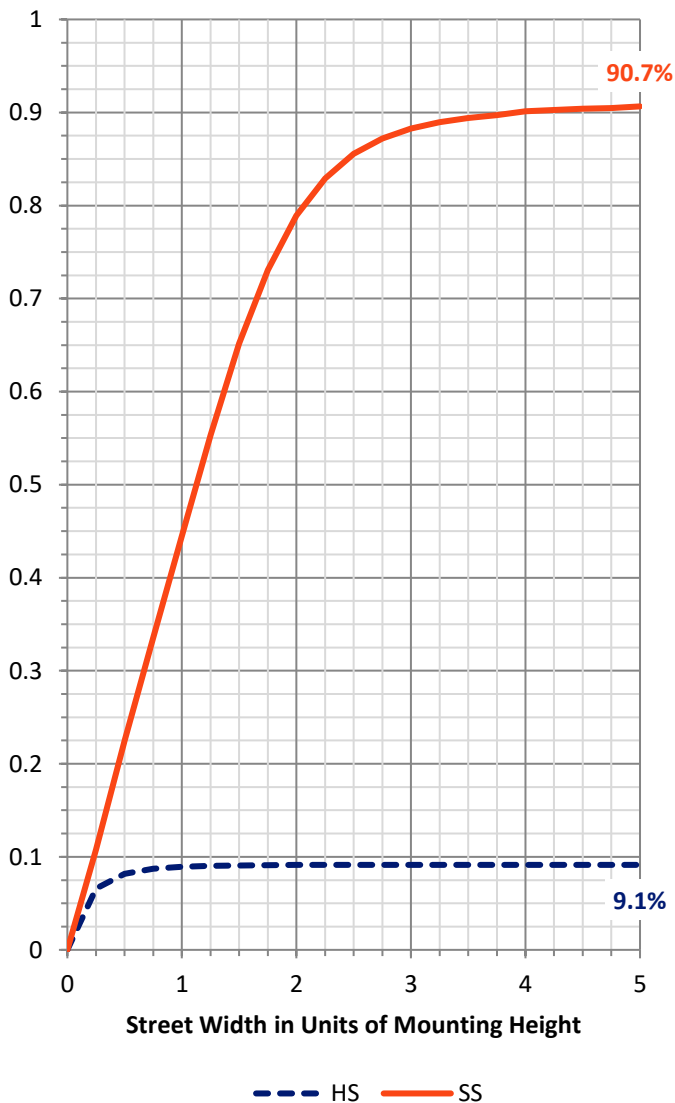
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1205.2	0.0	1205.2
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	11875.6	0.0	11875.6
	% Fixture	90.8	0.0	90.8
Total	Lumens	13080.8	0.0	13080.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.1	0.9
10°-20°	364.4	2.8
20°-30°	617.9	4.7
30°-40°	1027.4	7.9
40°-50°	1793.9	13.7
50°-60°	3504.7	26.8
60°-70°	4066.3	31.1
70°-80°	1480.7	11.3
80°-90°	104.3	0.8
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°	13080.8	100.0
0°-180°	13080.8	100.0

Coefficient of Utilization

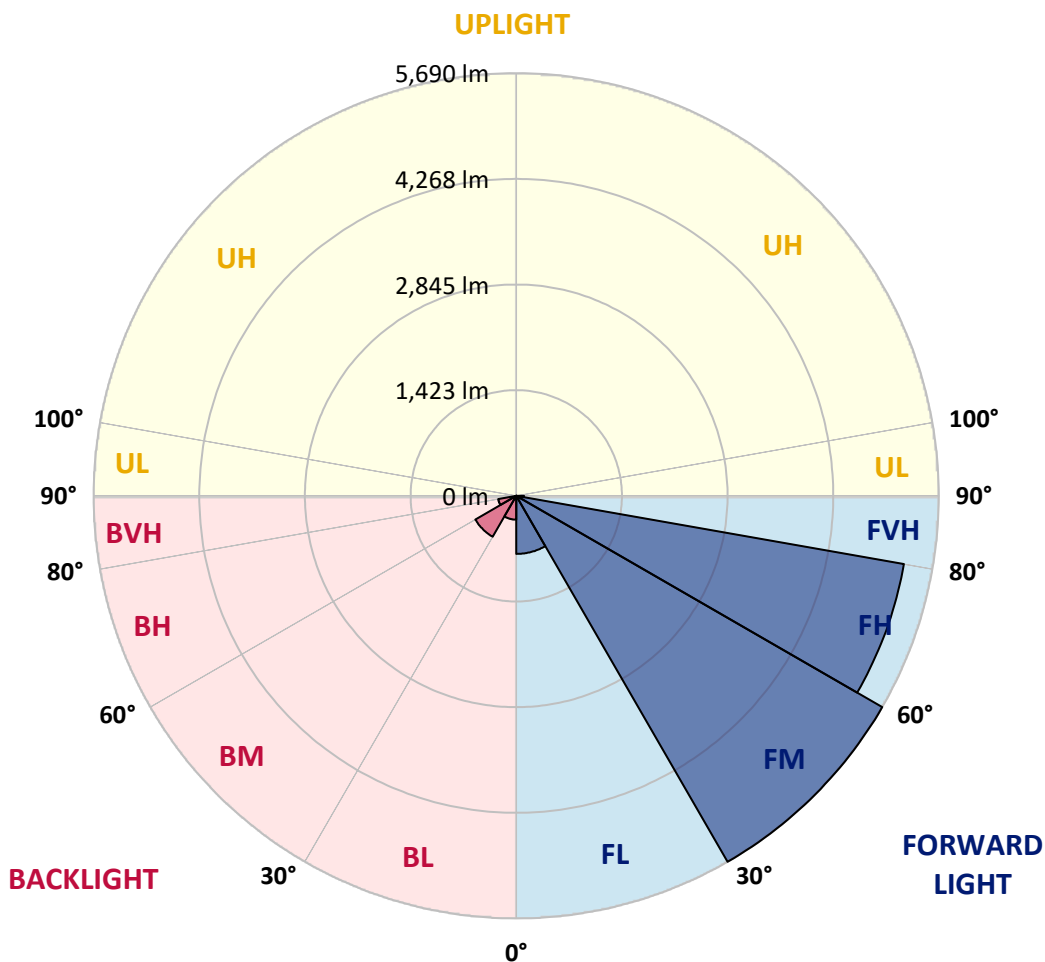


REPORT NUMBER: P647361
 CATALOG NUMBER: GALN-SA3D-835-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	782.4	6.0			
FM (30°-60°)	5690.2	43.5			
FH (60°-80°)	5300.2	40.5			G3/7500
FVH (80°-90°)	102.9	0.8			G2/225
BL (0°-30°)	321.1	2.5	B1/500		
BM (30°-60°)	635.9	4.9	B1/1000		
BH (60°-80°)	246.8	1.9	B1/500		G1/500
BVH (80°-90°)	1.4	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-G3
 Type III Short





REPORT NUMBER: P647361

CATALOG NUMBER: GALN-SA3D-835-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4
2.5°	1370.3	1364.4	1361.4	1345.4	1333.4	1318.4	1318.4	1299.4	1277.4	1253.4	1231.4
5°	1523.3	1513.3	1500.3	1486.3	1458.3	1418.3	1418.3	1378.4	1332.4	1291.4	1246.5
7.5°	1670.2	1661.2	1639.2	1612.3	1566.2	1524.3	1521.3	1463.3	1408.4	1346.4	1282.4
10°	1799.2	1792.1	1773.2	1721.2	1673.2	1618.2	1617.2	1552.3	1488.3	1412.4	1333.4
12.5°	1889.1	1890.1	1865.1	1815.2	1753.2	1701.2	1697.2	1633.3	1566.2	1484.3	1387.3
15°	1953.1	1953.1	1927.1	1871.1	1815.2	1769.2	1765.2	1709.2	1640.2	1551.3	1446.4
17.5°	1971.0	1977.1	1949.1	1899.1	1854.1	1814.1	1813.2	1766.2	1711.2	1625.3	1506.3
20°	1964.1	1970.1	1948.1	1909.1	1878.1	1855.2	1852.1	1833.2	1782.2	1701.2	1570.3
22.5°	1949.1	1955.1	1939.1	1916.1	1901.1	1908.1	1903.1	1919.1	1892.1	1794.2	1646.3
25°	1952.1	1958.0	1946.1	1933.1	1946.1	1989.1	2002.1	2071.0	2047.1	1912.1	1728.2
27.5°	2046.1	2058.0	2041.0	2047.1	2093.0	2192.9	2218.0	2336.9	2230.9	2062.0	1856.1
30°	2255.0	2247.0	2215.0	2243.9	2403.9	2615.8	2608.8	2589.8	2423.9	2235.0	2008.1
32.5°	2444.8	2437.9	2435.8	2560.8	2850.7	2953.6	2948.6	2764.7	2596.8	2432.9	2158.0
35°	2521.8	2494.9	2488.8	2791.7	3276.5	3140.5	3109.5	2836.7	2806.7	2648.7	2310.9
37.5°	2753.7	2734.7	2641.8	2829.7	3106.6	3061.6	3037.6	2960.6	3030.6	2839.7	2483.8
40°	3231.5	3178.5	3094.6	2910.6	2865.7	2884.7	2908.6	3119.6	3295.5	3100.5	2714.7
42.5°	3825.2	3813.2	3657.3	3314.4	2977.6	3003.6	3034.6	3451.4	3676.3	3493.4	3091.6
45°	4537.9	4554.9	4330.0	3925.2	3483.4	3505.3	3550.4	3941.2	4192.0	4104.1	3684.2
47.5°	5185.6	5172.6	5096.6	4675.8	4268.0	4219.0	4292.0	4569.9	4905.7	4919.7	4420.0
50°	5837.3	5906.2	5793.3	5628.4	5325.5	5222.5	5195.6	5331.5	5843.3	5776.3	5303.5
52.5°	6773.8	6809.8	6597.9	6556.0	6624.9	6291.1	6264.1	6297.0	6754.9	6525.0	5965.2
55°	7362.5	7341.6	7262.6	7590.5	7863.4	7446.6	7412.5	7279.6	7511.5	7053.7	6601.9
57.5°	7548.5	7578.5	7762.3	8355.1	9000.8	8647.0	8585.0	8207.2	8057.2	7546.5	7187.6
60°	7465.5	7520.5	7917.3	8798.9	9694.5	9641.5	9588.5	8953.8	8449.0	7958.3	7598.5
62.5°	6874.8	6951.8	7586.5	8720.0	9929.4	10260.2	10194.3	9419.6	8709.9	8158.2	7670.4
65°	5761.3	5818.3	6729.9	8003.3	9595.5	10472.1	10448.1	9565.5	8750.9	7975.2	7177.7
67.5°	4107.1	4301.0	5145.6	6744.8	8608.0	10110.3	10151.3	9390.6	8366.1	7184.7	5944.2
70°	2581.8	2713.7	3319.5	4828.8	6900.8	8869.8	9004.8	8590.0	7260.6	5600.4	3979.1
72.5°	1231.4	1329.4	1761.2	3056.6	4870.7	6978.7	7085.7	7051.7	5614.3	3528.4	2053.0
75°	548.7	585.8	840.6	1560.3	3144.5	4690.8	4967.7	5013.6	3508.4	1726.2	798.7
77.5°	279.8	280.9	393.8	755.7	1570.3	2798.7	2853.6	3014.6	1902.1	760.6	277.9
80°	148.9	158.9	208.9	356.8	814.6	1378.4	1371.3	1507.3	843.6	372.9	92.9
82.5°	66.9	74.0	117.9	186.9	397.8	522.7	563.8	616.7	361.8	237.9	41.0
85°	20.0	24.0	57.9	94.0	143.9	151.0	168.9	217.9	204.9	168.9	21.0
87.5°	3.0	3.0	24.0	26.0	21.0	27.0	28.0	31.0	66.0	61.9	11.0
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: P647361

CATALOG NUMBER: GALN-SA3D-835-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4
2.5°	1219.4	1212.4	1187.4	1166.4	1148.4	1137.5	1124.5	1116.5	1112.5	1109.5	1110.5
5°	1224.5	1207.5	1164.5	1130.5	1104.5	1076.5	1057.5	1046.5	1041.5	1033.5	1033.5
7.5°	1252.4	1225.4	1165.5	1113.5	1068.5	1030.5	994.6	981.6	972.6	970.5	968.6
10°	1292.4	1258.4	1176.5	1104.5	1040.5	988.5	937.6	892.6	857.6	836.6	833.6
12.5°	1342.4	1293.4	1193.4	1098.5	1016.5	924.6	789.7	698.7	637.7	618.7	621.7
15°	1388.3	1335.4	1210.4	1093.5	972.6	766.6	613.7	509.7	478.8	475.8	476.8
17.5°	1443.3	1380.4	1230.4	1086.5	851.6	585.8	455.8	427.8	433.8	443.8	442.8
20°	1500.3	1428.3	1254.4	1044.5	679.6	440.8	402.8	405.8	414.8	423.8	425.8
22.5°	1561.3	1483.3	1282.4	943.6	518.7	383.8	381.8	385.8	394.8	404.8	406.8
25°	1645.2	1552.3	1303.4	811.7	392.8	354.9	358.8	365.8	373.8	384.8	386.8
27.5°	1753.2	1645.2	1314.4	639.7	339.8	328.9	329.9	339.8	349.8	359.9	359.9
30°	1893.1	1756.2	1292.4	483.7	313.8	303.9	299.9	305.8	318.8	328.9	329.9
32.5°	2018.0	1861.1	1234.4	369.8	294.9	280.9	270.8	271.9	276.9	282.9	283.8
35°	2143.0	1963.1	1135.5	310.9	274.8	258.9	243.9	235.9	231.9	228.9	231.9
37.5°	2303.0	2090.1	1003.6	282.9	257.8	237.9	216.9	199.9	185.9	176.9	178.9
40°	2508.8	2265.9	847.6	264.9	241.9	217.9	189.9	168.0	143.9	135.9	131.9
42.5°	2848.6	2532.8	683.7	249.9	225.9	196.9	161.9	131.9	109.9	101.9	104.0
45°	3385.5	2869.7	526.7	233.9	209.9	173.9	135.9	104.0	86.0	82.0	83.9
47.5°	4097.1	3305.4	405.8	215.9	189.9	148.9	107.0	82.0	70.9	70.0	69.0
50°	4766.7	3711.3	338.8	195.9	165.9	123.9	87.9	69.0	61.9	61.0	61.0
52.5°	5372.5	4002.1	275.9	172.9	139.9	101.9	74.0	61.0	55.0	52.0	52.0
55°	5911.3	4192.0	223.9	144.9	109.9	81.0	64.0	55.0	48.0	44.0	43.0
57.5°	6318.0	4215.0	168.0	116.0	82.0	63.0	55.0	48.0	40.0	35.0	33.0
60°	6492.0	4016.2	123.9	87.9	61.0	50.0	44.0	39.0	30.0	25.0	24.0
62.5°	6317.1	3629.3	91.9	66.9	47.0	37.0	31.0	29.0	21.0	15.0	14.0
65°	5690.4	3070.5	73.0	51.0	35.0	27.0	20.0	19.0	13.0	7.0	6.0
67.5°	4558.9	2404.9	57.9	38.0	25.0	18.0	13.0	12.0	7.0	2.0	2.0
70°	2964.6	1537.3	47.0	28.0	16.0	12.0	8.0	6.0	4.0	1.0	0.0
72.5°	1466.3	718.6	38.0	22.0	11.0	6.0	3.0	2.0	3.0	0.0	0.0
75°	568.8	255.9	28.0	15.0	6.0	3.0	2.0	0.0	1.0	0.0	0.0
77.5°	188.9	85.0	17.0	8.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	70.0	33.0	9.0	5.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.0	13.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.0	8.0	4.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.0	6.0	4.0	3.0	2.0	1.0	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)