

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: P646921

Luminaire Tested: **GALN-SA4C-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646921
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-SA4C-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA 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: 15753.2 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

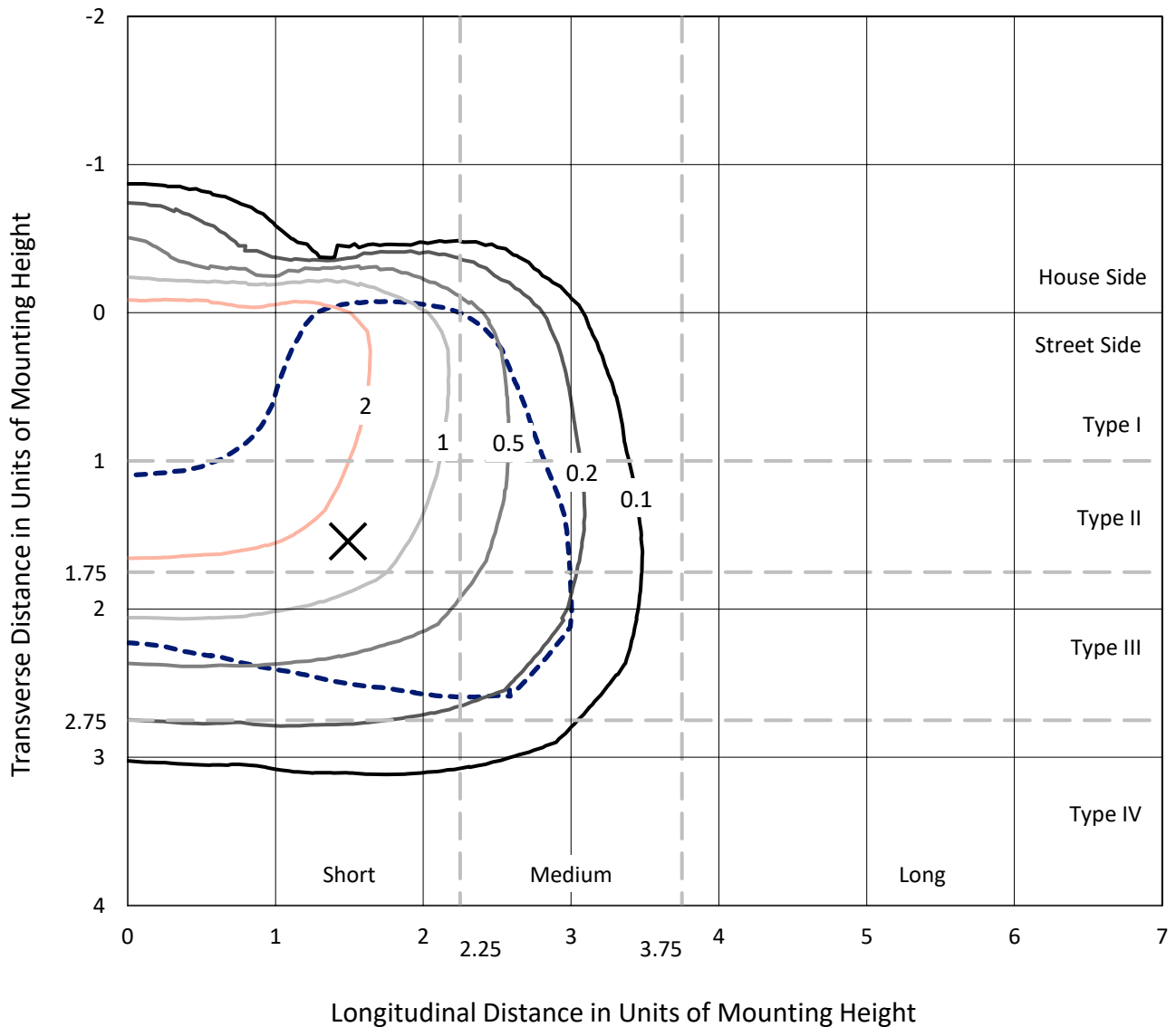
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

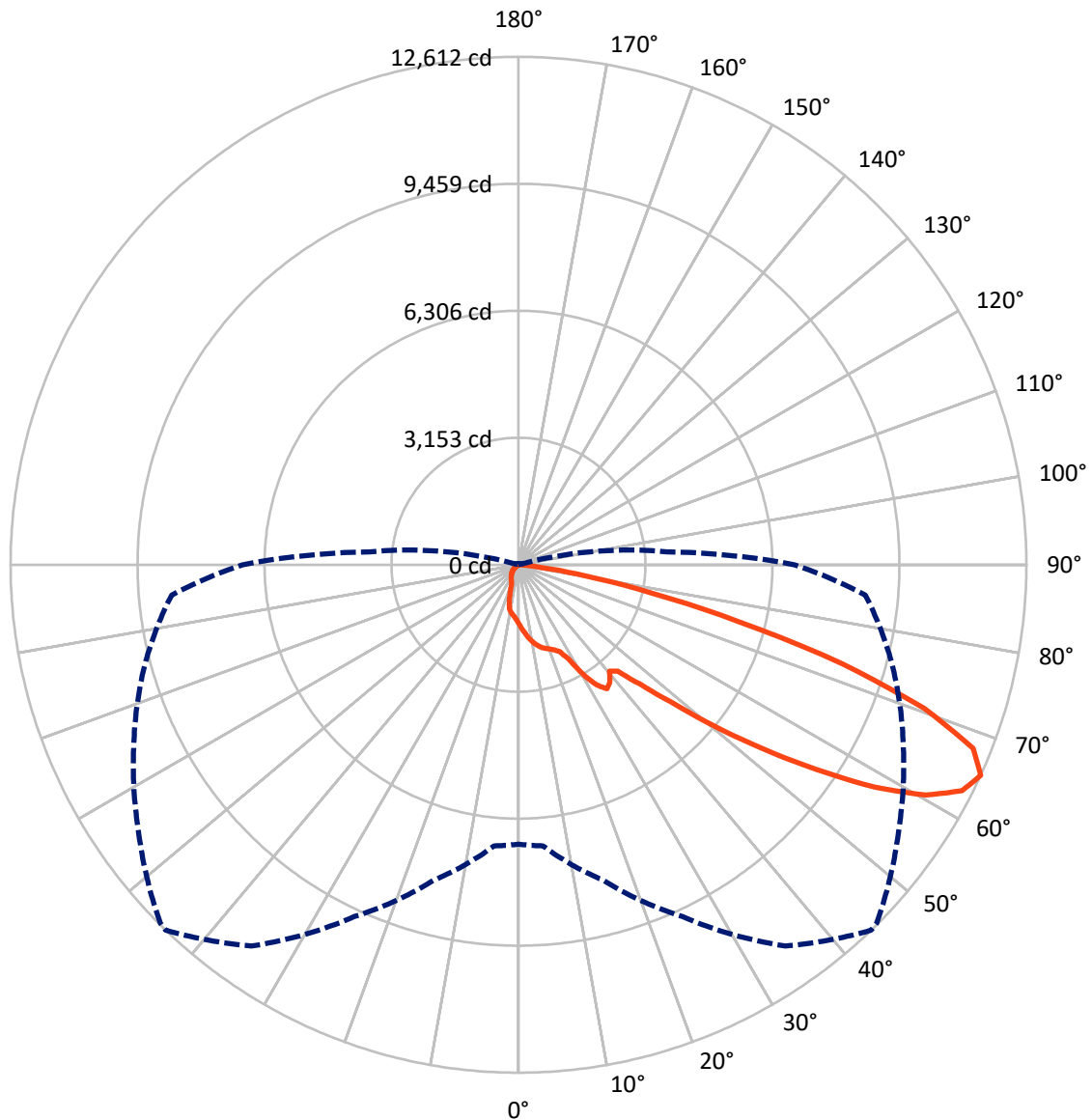
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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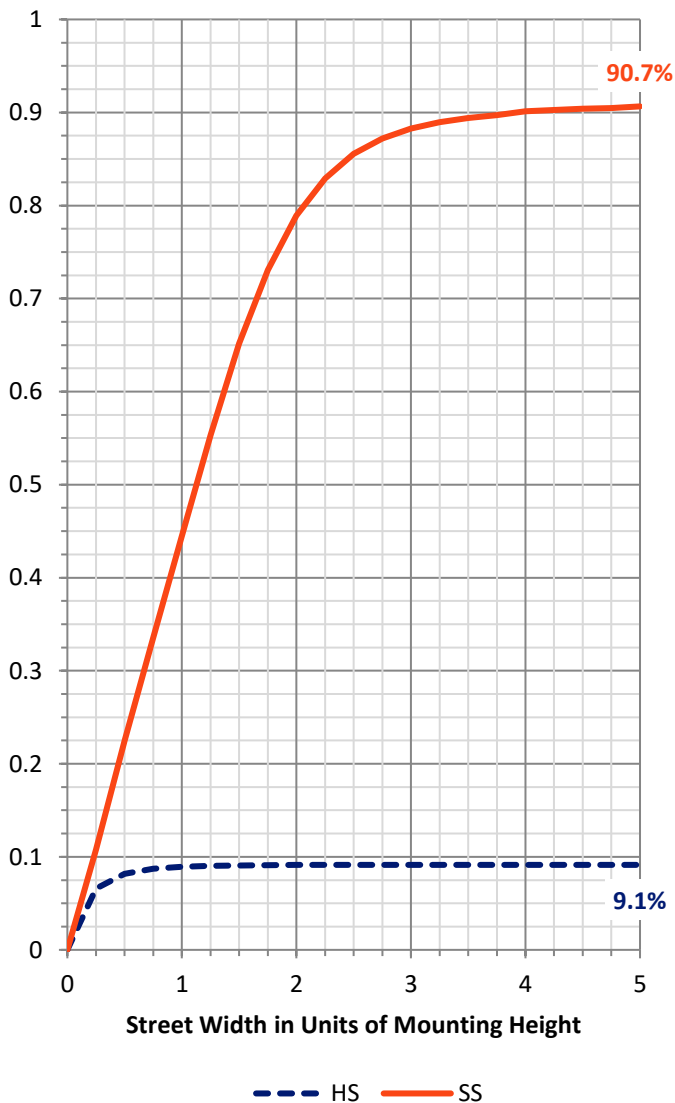
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1451.4	0.0	1451.4
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	14301.8	0.0	14301.8
	% Fixture	90.8	0.0	90.8
Total	Lumens	15753.2	0.0	15753.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.8	0.9
10°-20°	438.9	2.8
20°-30°	744.2	4.7
30°-40°	1237.3	7.9
40°-50°	2160.4	13.7
50°-60°	4220.7	26.8
60°-70°	4897.0	31.1
70°-80°	1783.2	11.3
80°-90°	125.6	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°	15753.2	100.0
0°-180°	15753.2	100.0

Coefficient of Utilization

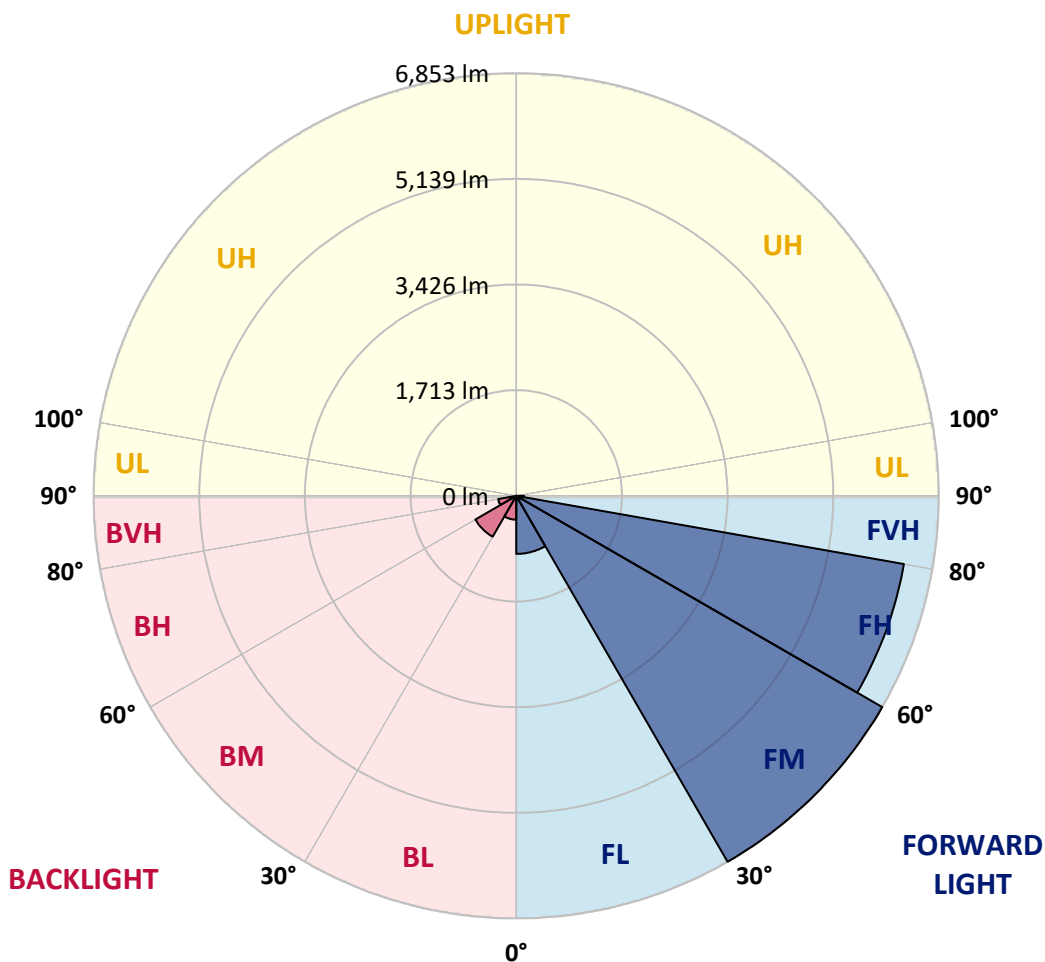


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	942.2	6.0			
FM (30°-60°)	6852.7	43.5			
FH (60°-80°)	6383.0	40.5			G3/7500
FVH (80°-90°)	123.9	0.8			G2/225
BL (0°-30°)	386.7	2.5	B1/500		
BM (30°-60°)	765.8	4.9	B1/1000		
BH (60°-80°)	297.2	1.9	B1/500		G1/500
BVH (80°-90°)	1.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2
2.5°	1650.3	1643.1	1639.5	1620.3	1605.8	1587.8	1587.8	1564.8	1538.4	1509.5	1483.0
5°	1834.5	1822.4	1806.8	1789.9	1756.3	1708.1	1708.1	1660.0	1604.6	1555.2	1501.1
7.5°	2011.4	2000.6	1974.1	1941.6	1886.2	1835.7	1832.1	1762.3	1696.1	1621.4	1544.4
10°	2166.7	2158.3	2135.4	2072.8	2015.1	1948.9	1947.6	1869.4	1792.4	1700.9	1605.8
12.5°	2275.1	2276.3	2246.2	2186.0	2111.4	2048.8	2043.9	1966.9	1886.2	1787.5	1670.8
15°	2352.1	2352.1	2320.8	2253.4	2186.0	2130.6	2125.8	2058.4	1975.4	1868.2	1741.8
17.5°	2373.7	2381.0	2347.3	2287.1	2233.0	2184.8	2183.6	2127.0	2060.8	1957.3	1814.1
20°	2365.4	2372.6	2346.1	2299.1	2261.9	2234.1	2230.5	2207.7	2146.3	2048.8	1891.1
22.5°	2347.3	2354.5	2335.2	2307.6	2289.5	2297.9	2291.9	2311.2	2278.7	2160.7	1982.6
25°	2350.9	2358.1	2343.7	2328.0	2343.7	2395.4	2411.1	2494.2	2465.3	2302.7	2081.3
27.5°	2464.0	2478.5	2458.0	2465.3	2520.6	2641.0	2671.1	2814.3	2686.7	2483.3	2235.3
30°	2715.6	2706.0	2667.4	2702.4	2895.0	3150.2	3141.8	3118.8	2919.0	2691.6	2418.3
32.5°	2944.3	2935.9	2933.5	3084.0	3433.1	3557.0	3551.1	3329.6	3127.3	2929.9	2598.9
35°	3037.0	3004.5	2997.3	3362.0	3945.9	3782.1	3744.9	3416.2	3380.1	3189.9	2783.0
37.5°	3316.3	3293.5	3181.5	3407.8	3741.2	3687.1	3658.2	3565.5	3649.7	3419.8	2991.3
40°	3891.7	3827.9	3726.8	3505.3	3451.2	3474.0	3502.9	3756.8	3968.7	3734.0	3269.3
42.5°	4606.7	4592.2	4404.5	3991.6	3585.9	3617.2	3654.6	4156.5	4427.3	4207.1	3723.2
45°	5464.9	5485.5	5214.6	4727.0	4195.0	4221.5	4275.6	4746.3	5048.5	4942.5	4436.9
47.5°	6245.0	6229.3	6137.9	5631.1	5139.9	5081.0	5168.8	5503.5	5908.0	5924.8	5322.9
50°	7029.9	7112.9	6976.8	6778.3	6413.5	6289.5	6257.0	6420.8	7037.1	6956.4	6387.0
52.5°	8157.7	8201.1	7945.9	7895.3	7978.4	7576.3	7543.8	7583.5	8134.8	7858.0	7183.9
55°	8866.7	8841.5	8746.3	9141.2	9469.8	8967.9	8926.9	8766.8	9046.1	8494.8	7950.7
57.5°	9090.6	9126.7	9348.2	10062.0	10839.6	10413.5	10338.9	9883.9	9703.3	9088.2	8656.1
60°	8990.7	9056.9	9534.8	10596.5	11675.1	11611.3	11547.4	10783.1	10175.2	9584.2	9150.8
62.5°	8279.3	8372.0	9136.4	10501.4	11957.9	12356.4	12276.9	11344.0	10489.4	9824.9	9237.4
65°	6938.3	7007.0	8104.8	9638.3	11555.9	12611.5	12582.7	11519.7	10538.7	9604.6	8644.0
67.5°	4946.1	5179.7	6196.8	8122.8	10366.6	12175.8	12225.1	11309.1	10075.3	8652.5	7158.7
70°	3109.2	3268.2	3997.6	5815.3	8310.6	10681.9	10844.5	10344.9	8743.9	6744.5	4792.0
72.5°	1483.0	1601.0	2121.0	3681.0	5865.8	8404.5	8533.3	8492.3	6761.4	4249.2	2472.5
75°	660.9	705.4	1012.3	1879.0	3787.0	5649.1	5982.6	6037.9	4225.1	2078.9	961.8
77.5°	337.1	338.3	474.3	910.0	1891.1	3370.4	3436.7	3630.5	2290.7	916.0	334.7
80°	179.4	191.4	251.6	429.7	981.0	1660.0	1651.5	1815.2	1015.9	449.0	112.0
82.5°	80.6	89.1	142.0	225.1	479.1	629.5	678.9	742.7	435.7	286.5	49.3
85°	24.0	28.9	69.8	113.1	173.4	181.7	203.4	262.4	246.8	203.4	25.3
87.5°	3.6	3.6	28.9	31.3	25.3	32.5	33.7	37.3	79.5	74.6	13.2
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°	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2
2.5°	1468.6	1460.1	1430.1	1404.8	1383.1	1369.9	1354.2	1344.6	1339.8	1336.1	1337.4
5°	1474.5	1454.1	1402.4	1361.4	1330.2	1296.4	1273.5	1260.3	1254.3	1244.7	1244.7
7.5°	1508.3	1475.8	1403.5	1341.0	1286.8	1241.1	1197.8	1182.1	1171.2	1168.9	1166.4
10°	1556.4	1515.5	1416.8	1330.2	1253.1	1190.5	1129.1	1074.9	1032.8	1007.6	1003.9
12.5°	1616.6	1557.6	1437.3	1322.9	1224.2	1113.4	951.0	841.4	768.0	745.1	748.7
15°	1672.0	1608.2	1457.7	1316.8	1171.2	923.2	739.1	613.9	576.6	573.0	574.2
17.5°	1738.2	1662.4	1481.8	1308.5	1025.6	705.4	548.9	515.2	522.4	534.5	533.2
20°	1806.8	1720.2	1510.7	1257.9	818.5	530.9	485.1	488.7	499.6	510.4	512.8
22.5°	1880.2	1786.3	1544.4	1136.3	624.8	462.2	459.9	464.6	475.4	487.5	489.9
25°	1981.4	1869.4	1569.7	977.4	473.1	427.4	432.1	440.6	450.2	463.5	465.9
27.5°	2111.4	1981.4	1582.9	770.4	409.3	396.0	397.2	409.3	421.3	433.3	433.3
30°	2279.9	2115.0	1556.4	582.6	378.0	366.0	361.1	368.3	384.0	396.0	397.2
32.5°	2430.4	2241.3	1486.6	445.4	355.1	338.3	326.2	327.5	333.4	340.7	341.9
35°	2580.8	2364.1	1367.4	374.4	331.1	311.8	293.7	284.1	279.3	275.7	279.3
37.5°	2773.4	2517.0	1208.6	340.7	310.5	286.5	261.2	240.8	223.9	213.1	215.5
40°	3021.4	2728.8	1020.8	319.0	291.3	262.4	228.7	202.2	173.4	163.7	158.9
42.5°	3430.6	3050.3	823.3	300.9	272.0	237.2	195.0	158.9	132.4	122.8	125.2
45°	4077.1	3455.9	634.4	281.6	252.8	209.5	163.7	125.2	103.5	98.7	101.1
47.5°	4934.2	3980.8	488.7	260.0	228.7	179.4	128.8	98.7	85.5	84.3	83.1
50°	5740.6	4469.4	408.1	235.9	199.8	149.2	105.9	83.1	74.6	73.4	73.4
52.5°	6470.1	4819.8	332.2	208.3	168.5	122.8	89.1	73.4	66.2	62.6	62.6
55°	7118.9	5048.5	269.7	174.5	132.4	97.5	77.0	66.2	57.8	52.9	51.8
57.5°	7608.8	5076.2	202.2	139.6	98.7	75.9	66.2	57.8	48.2	42.1	39.7
60°	7818.3	4836.6	149.2	105.9	73.4	60.2	52.9	47.0	36.1	30.1	28.9
62.5°	7607.6	4370.8	110.7	80.6	56.6	44.6	37.3	34.9	25.3	18.1	16.8
65°	6852.9	3697.9	87.9	61.4	42.1	32.5	24.0	22.9	15.7	8.5	7.2
67.5°	5490.2	2896.2	69.8	45.7	30.1	21.7	15.7	14.4	8.5	2.4	2.4
70°	3570.2	1851.3	56.6	33.7	19.3	14.4	9.6	7.2	4.8	1.2	0.0
72.5°	1765.9	865.4	45.7	26.5	13.2	7.2	3.6	2.4	3.6	0.0	0.0
75°	684.9	308.2	33.7	18.1	7.2	3.6	2.4	0.0	1.2	0.0	0.0
77.5°	227.5	102.3	20.4	9.6	4.8	2.4	0.0	0.0	0.0	0.0	0.0
80°	84.3	39.7	10.8	6.0	2.4	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	33.7	15.7	7.2	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.8	9.6	4.8	3.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.1	7.2	4.8	3.6	2.4	1.2	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)