

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: P647966

Luminaire Tested: **GALN-SA5A-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647966
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-SA5A-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA 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: 12972 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

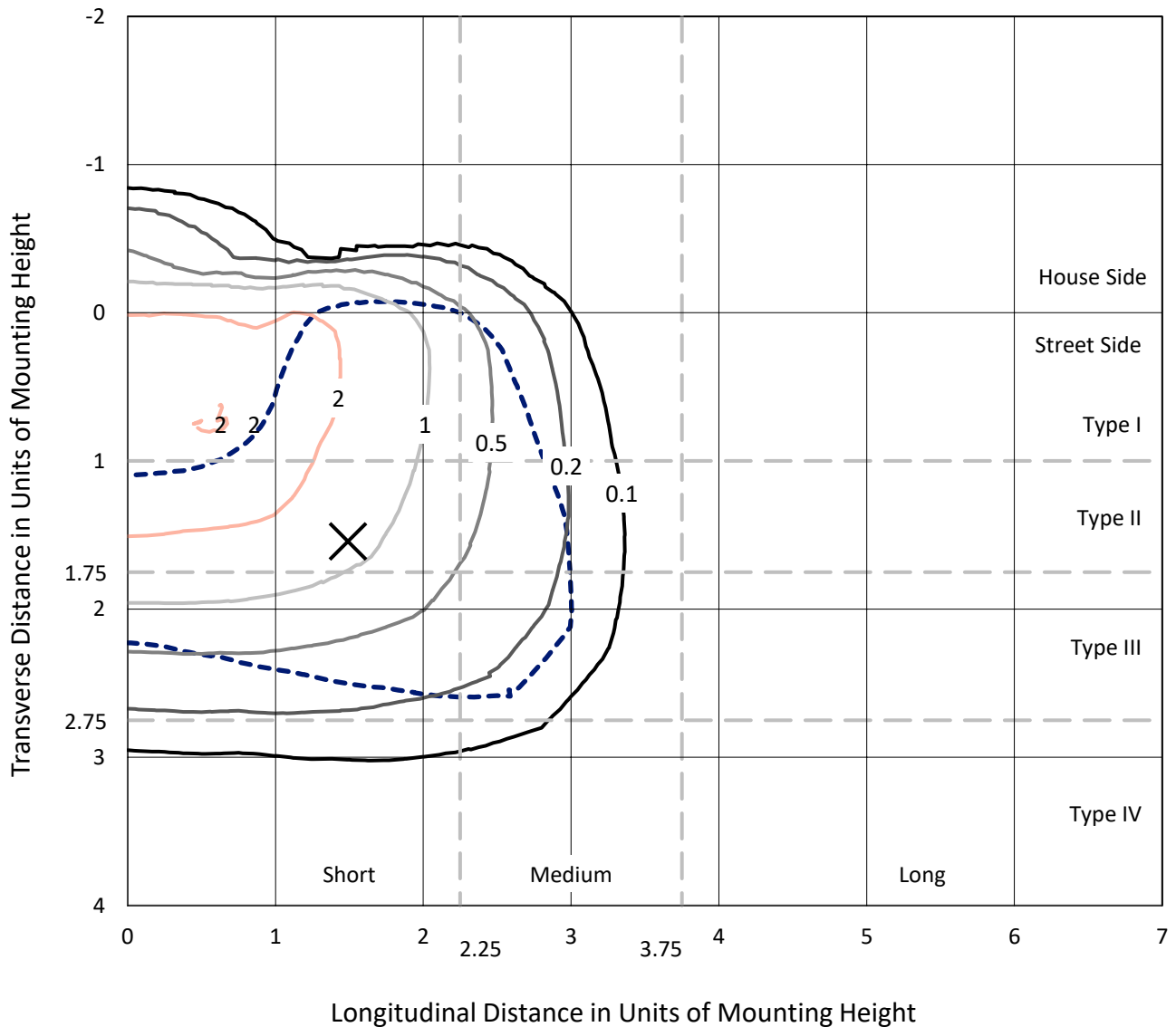
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

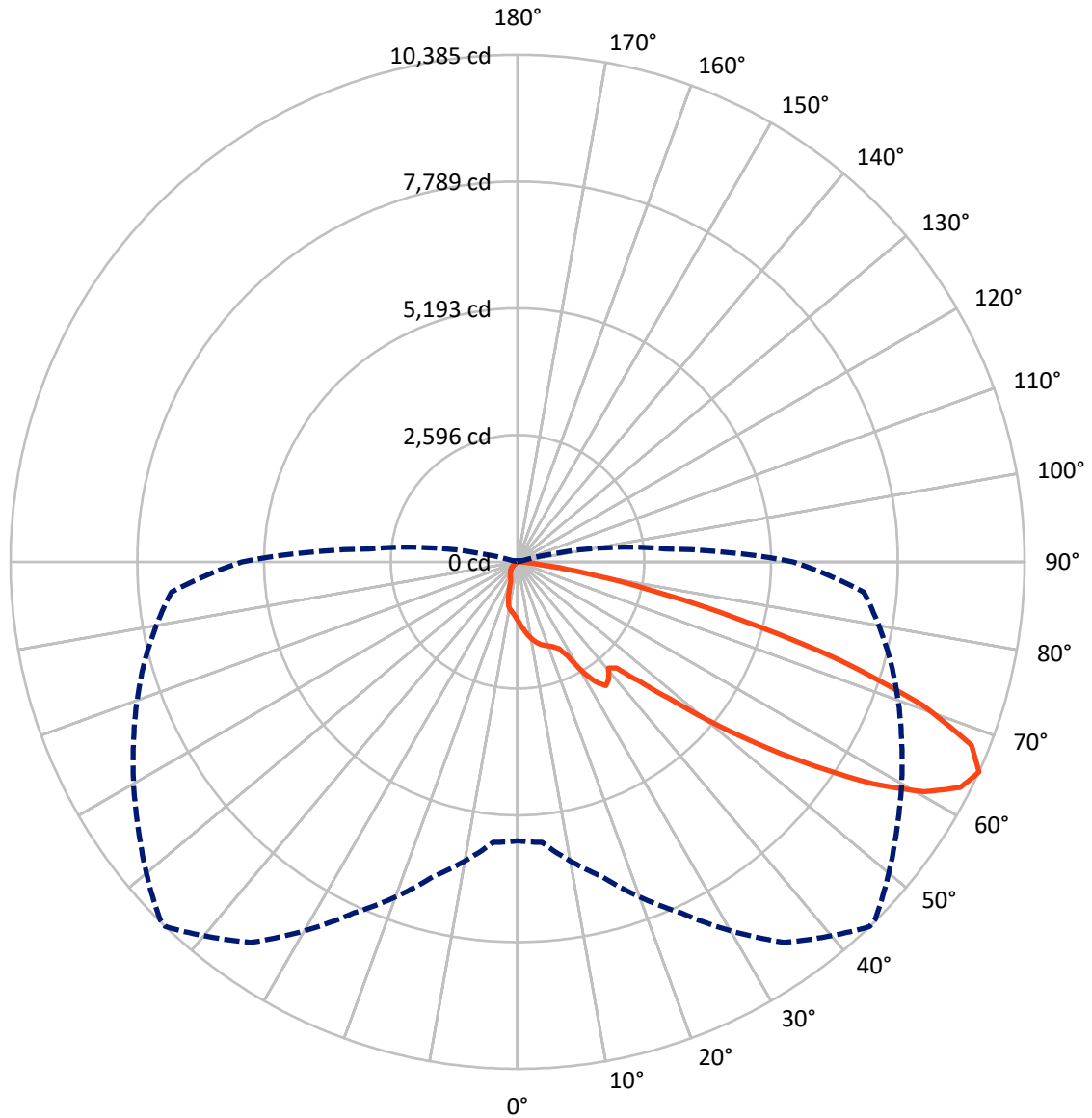
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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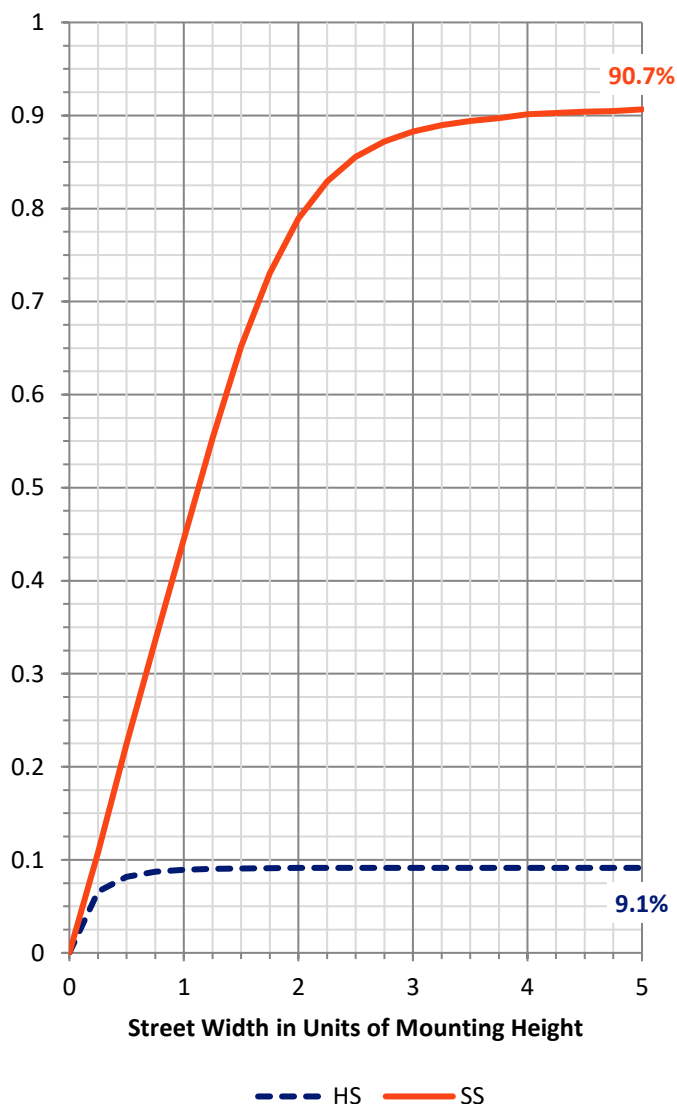
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1195.2	0.0	1195.2
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	11776.8	0.0	11776.8
	% Fixture	90.8	0.0	90.8
Total	Lumens	12972.0	0.0	12972.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	0.9
10°-20°	361.4	2.8
20°-30°	612.8	4.7
30°-40°	1018.9	7.9
40°-50°	1779.0	13.7
50°-60°	3475.5	26.8
60°-70°	4032.4	31.1
70°-80°	1468.4	11.3
80°-90°	103.5	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°	12972.0	100.0
0°-180°	12972.0	100.0

Coefficient of Utilization



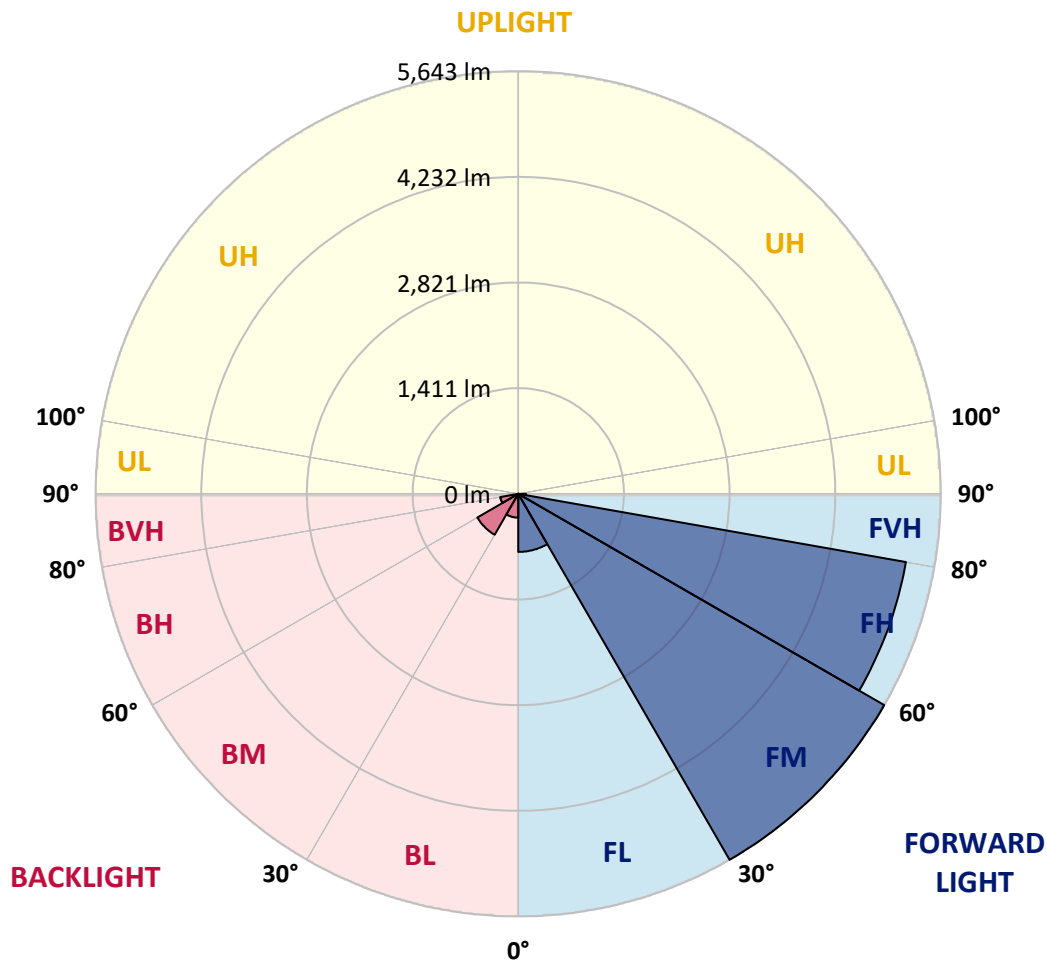
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.8	6.0			
FM (30°-60°)	5642.8	43.5			
FH (60°-80°)	5256.1	40.5			G3/7500
FVH (80°-90°)	102.1	0.8			G2/225
BL (0°-30°)	318.4	2.5	B1/500		
BM (30°-60°)	630.6	4.9	B1/1000		
BH (60°-80°)	244.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1207.3	1207.3	1207.3	1207.3	1207.3	1207.3	1207.3	1207.3	1207.3	1207.3	1207.3
2.5°	1359.0	1353.0	1350.0	1334.2	1322.3	1307.5	1307.5	1288.6	1266.7	1243.0	1221.2
5°	1510.6	1500.7	1487.8	1473.9	1446.2	1406.5	1406.5	1366.9	1321.3	1280.7	1236.0
7.5°	1656.4	1647.4	1625.6	1598.8	1553.2	1511.6	1508.6	1451.1	1396.6	1335.2	1271.7
10°	1784.2	1777.3	1758.4	1706.9	1659.3	1604.8	1603.8	1539.4	1476.0	1400.6	1322.3
12.5°	1873.4	1874.4	1849.6	1800.0	1738.6	1687.1	1683.1	1619.6	1553.2	1472.0	1375.8
15°	1936.8	1936.8	1911.1	1855.6	1800.0	1754.5	1750.5	1695.0	1626.6	1538.4	1434.3
17.5°	1954.7	1960.6	1932.8	1883.3	1838.7	1799.0	1798.1	1751.5	1697.0	1611.7	1493.7
20°	1947.7	1953.7	1931.9	1893.2	1862.5	1839.7	1836.8	1817.9	1767.3	1687.1	1557.2
22.5°	1932.8	1938.8	1923.0	1900.2	1885.3	1892.2	1887.3	1903.2	1876.4	1779.2	1632.6
25°	1935.8	1941.8	1929.9	1917.0	1929.9	1972.5	1985.4	2053.8	2030.0	1896.2	1713.8
27.5°	2029.0	2040.9	2024.1	2030.0	2075.6	2174.7	2199.5	2317.4	2212.4	2044.9	1840.7
30°	2236.2	2228.3	2196.5	2225.3	2383.8	2594.0	2587.1	2568.2	2403.7	2216.4	1991.3
32.5°	2424.5	2417.6	2415.6	2539.5	2826.9	2929.0	2924.1	2741.7	2575.2	2412.7	2140.0
35°	2500.8	2474.0	2468.1	2768.5	3249.2	3114.4	3083.7	2813.1	2783.3	2626.7	2291.7
37.5°	2730.8	2712.0	2619.8	2806.1	3080.7	3036.1	3012.3	2936.0	3005.4	2816.1	2463.2
40°	3204.6	3152.0	3068.8	2886.5	2841.8	2860.7	2884.4	3093.6	3268.0	3074.8	2692.1
42.5°	3793.4	3781.5	3626.9	3286.9	2952.8	2978.6	3009.3	3422.6	3645.7	3464.3	3065.8
45°	4500.1	4517.0	4294.0	3892.5	3454.4	3476.2	3520.8	3908.3	4157.2	4070.0	3653.6
47.5°	5142.4	5129.5	5054.2	4636.9	4232.5	4184.0	4256.3	4531.8	4864.9	4878.8	4383.2
50°	5788.7	5857.1	5745.1	5581.5	5281.2	5179.1	5152.4	5287.1	5794.7	5728.3	5259.4
52.5°	6717.5	6753.1	6543.1	6501.4	6569.8	6238.7	6211.9	6244.7	6698.6	6470.6	5915.6
55°	7301.3	7280.5	7202.2	7527.3	7797.9	7384.6	7350.9	7219.0	7449.0	6995.0	6547.0
57.5°	7485.6	7515.4	7697.8	8285.5	8925.9	8575.0	8513.6	8138.9	7990.2	7483.7	7127.8
60°	7403.4	7457.9	7851.5	8725.7	9613.8	9561.3	9508.8	8879.3	8378.7	7892.1	7535.2
62.5°	6817.6	6893.9	7523.4	8647.4	9846.8	10174.9	10109.4	9341.3	8637.4	8090.3	7606.6
65°	5713.4	5769.8	6673.9	7936.6	9515.7	10385.0	10361.2	9486.0	8678.1	7908.9	7117.9
67.5°	4072.9	4265.2	5102.8	6688.7	8536.3	10026.2	10066.8	9312.5	8296.5	7124.9	5894.7
70°	2560.3	2691.2	3291.8	4788.6	6843.3	8796.1	8929.9	8518.5	7200.2	5553.8	3946.0
72.5°	1221.2	1318.3	1746.6	3031.1	4830.2	6920.7	7026.7	6993.1	5567.7	3499.0	2036.0
75°	544.2	580.8	833.6	1547.3	3118.4	4651.8	4926.3	4972.0	3479.2	1711.8	792.0
77.5°	277.6	278.5	390.6	749.3	1557.2	2775.4	2829.9	2989.5	1886.3	754.3	275.5
80°	147.7	157.6	207.2	353.8	807.8	1366.9	1359.9	1494.7	836.6	369.7	92.2
82.5°	66.4	73.4	117.0	185.3	394.5	518.4	559.1	611.6	358.8	235.9	40.6
85°	19.8	23.8	57.5	93.2	142.7	149.7	167.5	216.1	203.2	167.5	20.8
87.5°	3.0	3.0	23.8	25.8	20.8	26.8	27.7	30.7	65.5	61.5	10.9
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°	1207.3	1207.3	1207.3	1207.3	1207.3	1207.3	1207.3	1207.3	1207.3	1207.3	1207.3
2.5°	1209.3	1202.4	1177.6	1156.7	1138.9	1128.0	1115.1	1107.2	1103.2	1100.3	1101.2
5°	1214.3	1197.4	1154.8	1121.1	1095.3	1067.5	1048.7	1037.8	1032.9	1024.9	1024.9
7.5°	1242.0	1215.2	1155.8	1104.2	1059.6	1022.0	986.3	973.3	964.4	962.5	960.5
10°	1281.6	1247.9	1166.7	1095.3	1031.8	980.3	929.7	885.2	850.5	829.7	826.7
12.5°	1331.2	1282.6	1183.5	1089.3	1008.0	916.9	783.1	692.9	632.4	613.6	616.5
15°	1376.8	1324.3	1200.3	1084.4	964.4	760.3	608.6	505.5	474.8	471.8	472.8
17.5°	1431.3	1368.8	1220.2	1077.5	844.5	580.8	452.0	424.2	430.2	440.1	439.1
20°	1487.8	1416.4	1244.0	1035.8	674.0	437.1	399.5	402.5	411.4	420.3	422.3
22.5°	1548.3	1470.9	1271.7	935.7	514.4	380.6	378.7	382.6	391.5	401.4	403.4
25°	1631.5	1539.4	1292.6	804.8	389.5	351.9	355.9	362.8	370.8	381.6	383.6
27.5°	1738.6	1631.5	1303.5	634.4	337.0	326.1	327.1	337.0	346.9	356.8	356.8
30°	1877.4	1741.5	1281.6	479.7	311.2	301.3	297.4	303.3	316.2	326.1	327.1
32.5°	2001.3	1845.6	1224.1	366.8	292.4	278.5	268.6	269.6	274.6	280.5	281.5
35°	2125.1	1946.8	1126.0	308.3	272.6	256.7	241.9	234.0	230.0	227.0	230.0
37.5°	2283.8	2072.6	995.2	280.5	255.7	235.9	215.1	198.3	184.4	175.5	177.4
40°	2488.0	2247.1	840.6	262.7	239.9	216.1	188.3	166.5	142.7	134.8	130.8
42.5°	2825.0	2511.7	678.0	247.8	224.0	195.3	160.6	130.8	109.1	101.1	103.1
45°	3357.3	2845.8	522.3	231.9	208.1	172.5	134.8	103.1	85.3	81.3	83.2
47.5°	4063.0	3278.0	402.5	214.1	188.3	147.7	106.1	81.3	70.4	69.4	68.4
50°	4727.1	3680.4	336.0	194.3	164.5	122.9	87.2	68.4	61.5	60.4	60.4
52.5°	5327.8	3968.9	273.6	171.5	138.7	101.1	73.4	60.4	54.5	51.5	51.5
55°	5862.1	4157.2	222.1	143.8	109.1	80.3	63.4	54.5	47.6	43.6	42.6
57.5°	6265.5	4180.0	166.5	114.9	81.3	62.5	54.5	47.6	39.6	34.7	32.7
60°	6438.0	3982.7	122.9	87.2	60.4	49.6	43.6	38.7	29.8	24.7	23.8
62.5°	6264.5	3599.1	91.2	66.4	46.6	36.6	30.7	28.7	20.8	14.9	13.9
65°	5643.0	3045.0	72.3	50.6	34.7	26.8	19.8	18.9	12.9	7.0	6.0
67.5°	4521.0	2384.9	57.5	37.7	24.7	17.9	12.9	11.9	7.0	2.0	2.0
70°	2939.9	1524.5	46.6	27.7	15.9	11.9	7.9	6.0	4.0	1.0	0.0
72.5°	1454.1	712.7	37.7	21.8	10.9	6.0	3.0	2.0	3.0	0.0	0.0
75°	564.0	253.8	27.7	14.9	6.0	3.0	2.0	0.0	1.0	0.0	0.0
77.5°	187.4	84.3	16.8	7.9	4.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	69.4	32.7	8.9	4.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	27.7	12.9	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.9	7.9	4.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	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)