

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: P648406

Luminaire Tested: **GALN-SA4B-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648406
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-SA4B-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA 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: 12750.4 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

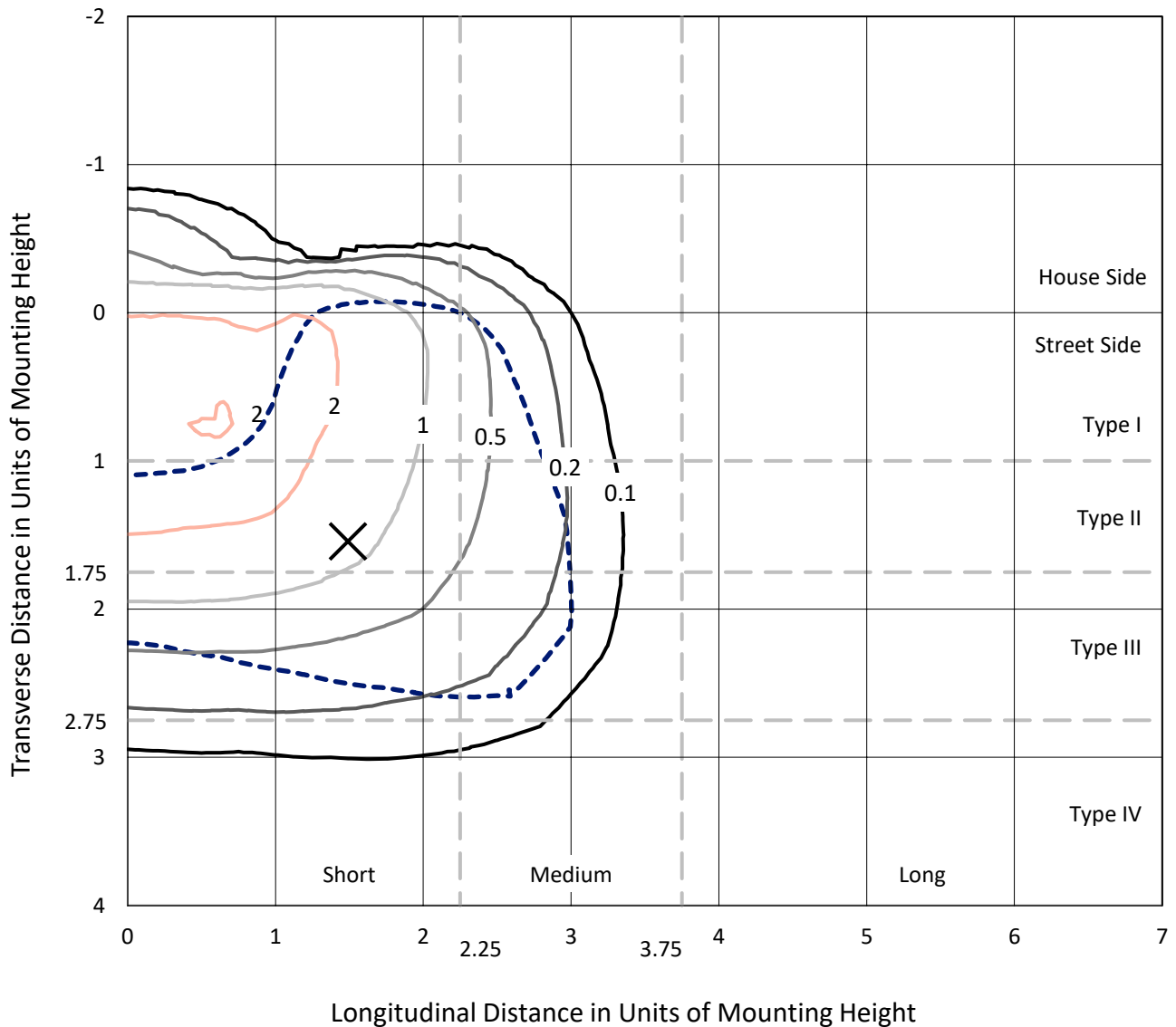
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

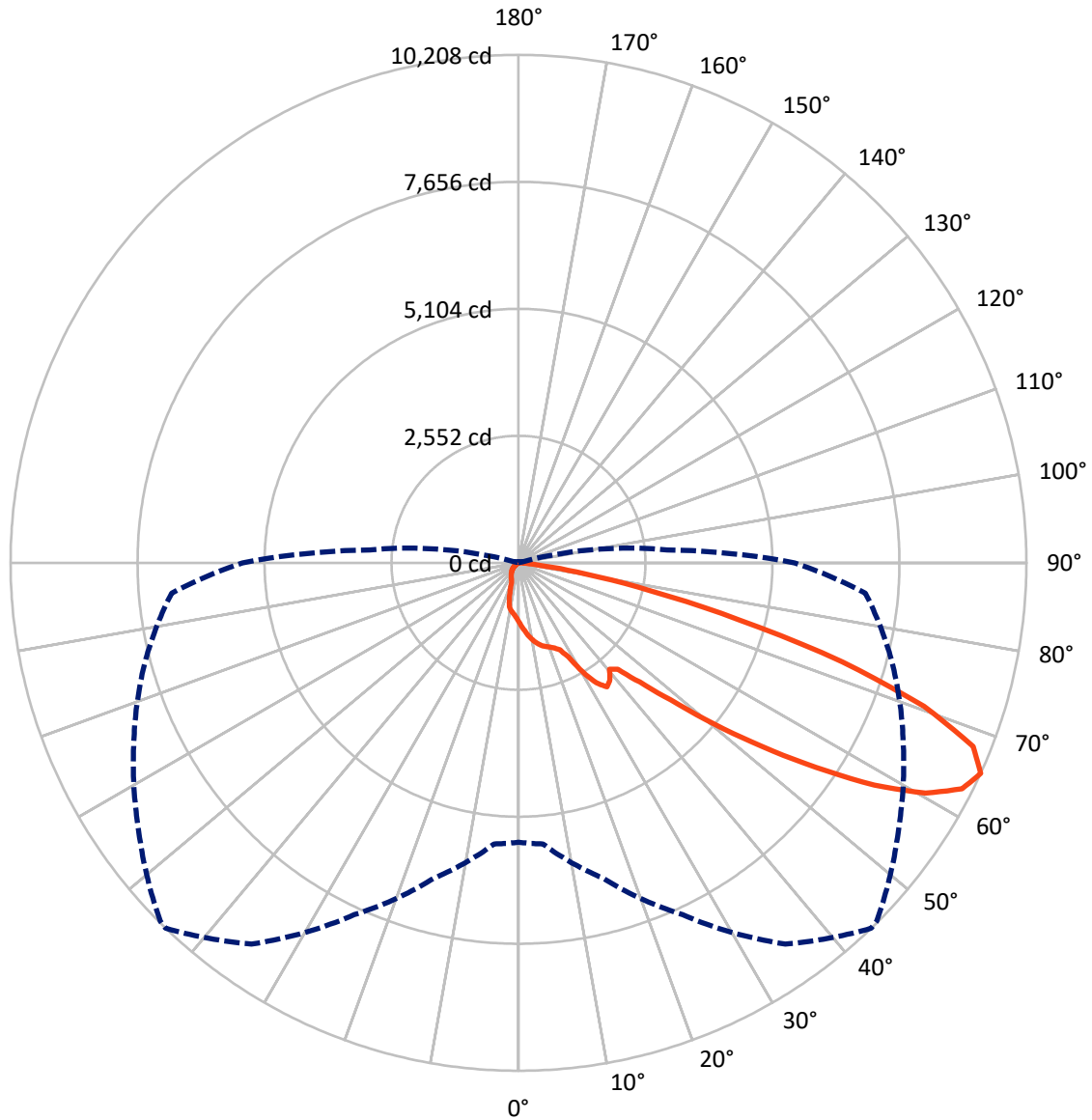
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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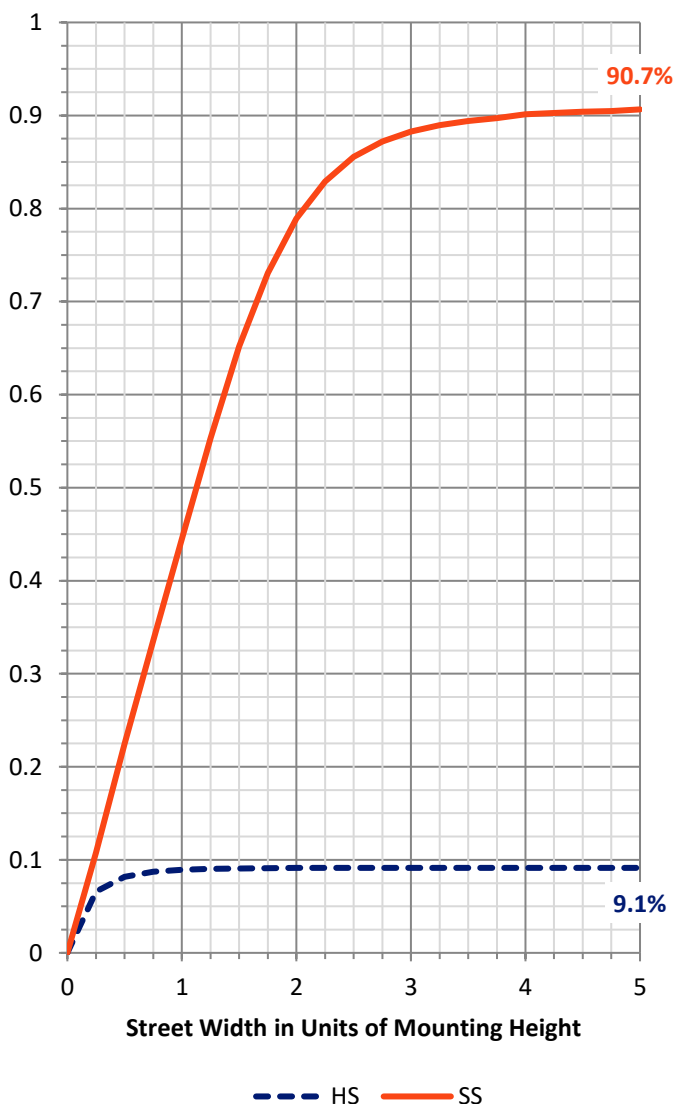
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1174.8	0.0	1174.8
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	11575.6	0.0	11575.6
	% Fixture	90.8	0.0	90.8
Total	Lumens	12750.4	0.0	12750.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	0.9
10°-20°	355.2	2.8
20°-30°	602.3	4.7
30°-40°	1001.5	7.9
40°-50°	1748.6	13.7
50°-60°	3416.2	26.8
60°-70°	3963.5	31.1
70°-80°	1443.3	11.3
80°-90°	101.7	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°	12750.4	100.0
0°-180°	12750.4	100.0

Coefficient of Utilization



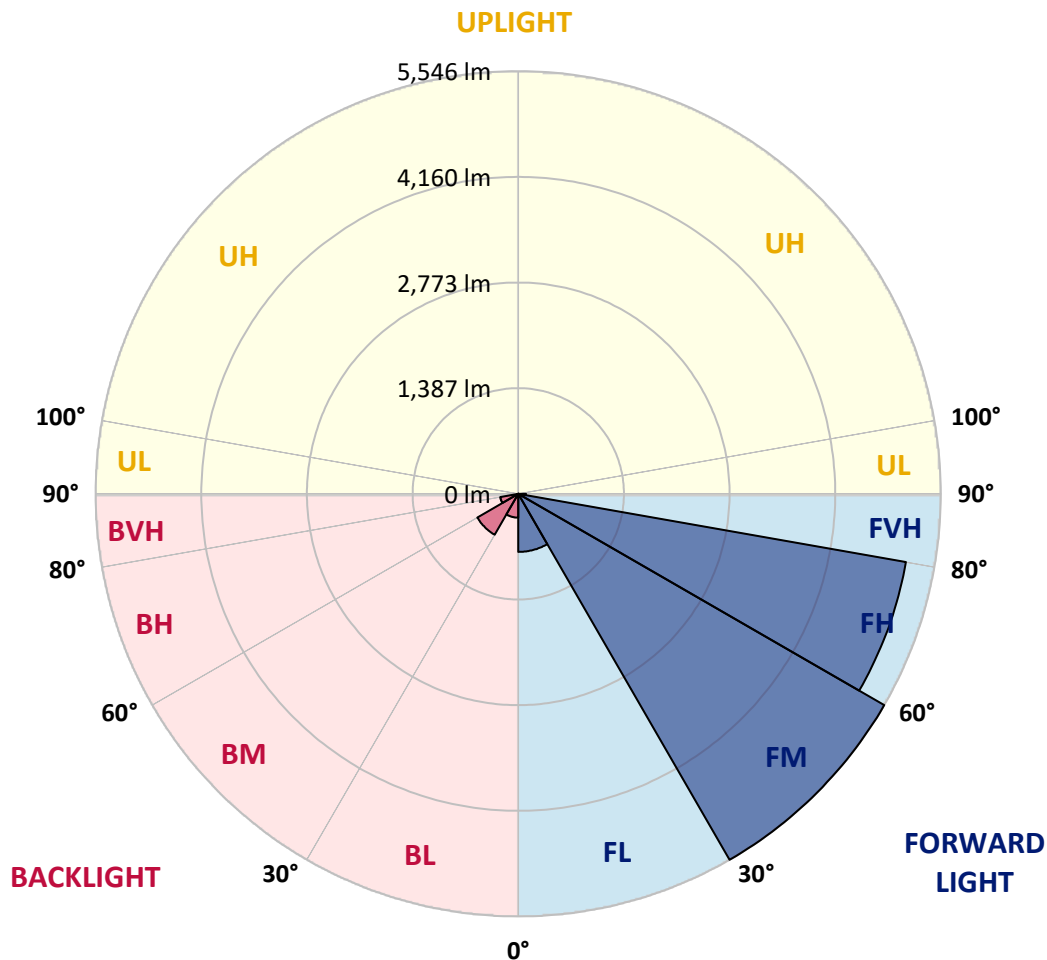
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	762.6	6.0			
FM (30°-60°)	5546.4	43.5			
FH (60°-80°)	5166.3	40.5			G3/7500
FVH (80°-90°)	100.3	0.8			G2/225
BL (0°-30°)	313.0	2.5	B1/500		
BM (30°-60°)	619.8	4.9	B1/1000		
BH (60°-80°)	240.6	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°	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7
2.5°	1335.7	1329.9	1327.0	1311.4	1299.7	1285.1	1285.1	1266.6	1245.1	1221.7	1200.3
5°	1484.8	1475.1	1462.4	1448.8	1421.5	1382.5	1382.5	1343.5	1298.7	1258.8	1214.9
7.5°	1628.0	1619.2	1597.8	1571.6	1526.7	1485.8	1482.8	1426.4	1372.8	1312.4	1250.0
10°	1753.7	1746.9	1728.4	1677.7	1631.0	1577.4	1576.4	1513.1	1450.7	1376.7	1299.7
12.5°	1841.4	1842.4	1818.0	1769.3	1708.9	1658.2	1654.3	1592.0	1526.7	1446.8	1352.3
15°	1903.8	1903.8	1878.4	1823.8	1769.3	1724.5	1720.6	1666.0	1598.8	1512.1	1409.8
17.5°	1921.3	1927.1	1899.9	1851.2	1807.3	1768.3	1767.4	1721.6	1667.9	1584.2	1468.3
20°	1914.4	1920.3	1898.9	1860.9	1830.7	1808.3	1805.4	1786.8	1737.2	1658.2	1530.6
22.5°	1899.9	1905.7	1890.1	1867.7	1853.1	1859.9	1855.0	1870.7	1844.4	1748.8	1604.7
25°	1902.8	1908.6	1896.9	1884.3	1896.9	1938.9	1951.5	2018.7	1995.3	1863.8	1684.5
27.5°	1994.4	2006.0	1989.5	1995.3	2040.2	2137.6	2161.9	2277.9	2174.6	2010.0	1809.3
30°	2198.0	2190.2	2159.0	2187.2	2343.1	2549.7	2542.9	2524.4	2362.6	2178.5	1957.3
32.5°	2383.1	2376.2	2374.4	2496.1	2778.6	2879.0	2874.2	2694.9	2531.2	2371.4	2103.5
35°	2458.2	2431.8	2426.0	2721.2	3193.7	3061.2	3031.0	2765.0	2735.8	2581.9	2252.5
37.5°	2684.1	2665.6	2575.1	2758.2	3028.1	2984.2	2960.8	2885.8	2954.0	2768.0	2421.1
40°	3149.9	3098.3	3016.4	2837.1	2793.3	2811.8	2835.2	3040.8	3212.2	3022.2	2646.1
42.5°	3728.6	3716.9	3564.9	3230.7	2902.4	2927.7	2957.9	3364.2	3583.4	3405.1	3013.5
45°	4423.2	4439.8	4220.6	3826.1	3395.4	3416.9	3460.6	3841.6	4086.2	4000.4	3591.2
47.5°	5054.6	5041.9	4967.9	4557.7	4160.2	4112.5	4183.6	4454.4	4781.8	4795.4	4308.3
50°	5689.8	5757.1	5647.0	5486.2	5191.0	5090.7	5064.4	5196.8	5695.7	5630.4	5169.5
52.5°	6602.7	6637.8	6431.2	6390.3	6457.6	6132.1	6105.8	6138.0	6584.2	6360.2	5814.6
55°	7176.6	7156.2	7079.2	7398.7	7664.7	7258.4	7225.3	7095.7	7321.8	6875.5	6435.2
57.5°	7357.8	7387.1	7566.3	8144.1	8773.4	8428.5	8368.2	7999.8	7853.7	7355.8	7006.0
60°	7277.0	7330.5	7717.3	8576.7	9449.6	9398.0	9346.3	8727.6	8235.6	7757.3	7406.6
62.5°	6701.1	6776.2	7394.8	8499.7	9678.6	10001.0	9936.7	9181.7	8489.9	7952.1	7476.6
65°	5615.8	5671.3	6559.9	7801.1	9353.2	10207.6	10184.2	9323.9	8529.8	7773.9	6996.3
67.5°	4003.3	4192.3	5015.6	6574.5	8390.5	9854.9	9894.8	9153.4	8154.8	7003.2	5794.0
70°	2516.6	2645.2	3235.6	4706.8	6726.4	8645.8	8777.4	8373.0	7077.2	5458.9	3878.6
72.5°	1200.3	1295.8	1716.7	2979.4	4747.7	6802.5	6906.7	6873.6	5472.5	3439.2	2001.2
75°	534.9	571.0	819.4	1520.8	3065.1	4572.3	4842.2	4887.0	3419.8	1682.6	778.5
77.5°	272.8	273.7	383.9	736.6	1530.6	2728.0	2781.6	2938.4	1854.1	741.4	270.8
80°	145.2	154.9	203.7	347.8	794.0	1343.5	1336.7	1469.2	822.3	363.4	90.6
82.5°	65.3	72.1	114.9	182.2	387.7	509.6	549.5	601.1	352.7	231.8	39.9
85°	19.5	23.4	56.5	91.6	140.3	147.1	164.7	212.4	199.7	164.7	20.4
87.5°	2.9	2.9	23.4	25.4	20.4	26.3	27.2	30.2	64.3	60.4	10.7
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°	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7
2.5°	1188.6	1181.8	1157.4	1137.0	1119.5	1108.7	1096.0	1088.3	1084.4	1081.5	1082.4
5°	1193.5	1176.9	1135.0	1101.9	1076.5	1049.3	1030.8	1020.1	1015.2	1007.4	1007.4
7.5°	1220.8	1194.5	1136.1	1085.3	1041.5	1004.5	969.4	956.7	948.0	946.0	944.1
10°	1259.8	1226.6	1146.7	1076.5	1014.2	963.6	913.9	870.1	835.9	815.5	812.5
12.5°	1308.5	1260.7	1163.3	1070.8	990.9	901.2	769.7	681.1	621.6	603.1	606.0
15°	1353.3	1301.7	1179.8	1065.9	948.0	747.3	598.2	496.9	466.7	463.8	464.7
17.5°	1406.9	1345.5	1199.3	1059.1	830.1	571.0	444.3	417.0	422.8	432.6	431.6
20°	1462.4	1392.3	1222.7	1018.1	662.5	429.6	392.7	395.6	404.3	413.1	415.1
22.5°	1521.8	1445.8	1250.0	919.7	505.7	374.1	372.2	376.1	384.8	394.6	396.5
25°	1603.7	1513.1	1270.5	791.1	382.9	345.9	349.8	356.6	364.4	375.1	377.0
27.5°	1708.9	1603.7	1281.2	623.6	331.3	320.6	321.5	331.3	341.0	350.7	350.7
30°	1845.3	1711.8	1259.8	471.5	305.9	296.2	292.3	298.2	310.8	320.6	321.5
32.5°	1967.1	1814.1	1203.2	360.5	287.4	273.7	264.0	265.0	269.9	275.7	276.7
35°	2088.9	1913.5	1106.8	303.0	267.9	252.4	237.7	230.0	226.1	223.1	226.1
37.5°	2244.8	2037.2	978.2	275.7	251.3	231.8	211.4	194.9	181.2	172.4	174.4
40°	2445.5	2208.7	826.2	258.2	235.8	212.4	185.1	163.6	140.3	132.5	128.6
42.5°	2776.7	2468.9	666.4	243.6	220.2	191.9	157.9	128.6	107.2	99.4	101.3
45°	3299.9	2797.2	513.4	228.0	204.6	169.5	132.5	101.3	83.8	79.9	81.8
47.5°	3993.6	3222.0	395.6	210.5	185.1	145.2	104.2	79.9	69.1	68.2	67.3
50°	4646.4	3617.5	330.3	191.0	161.8	120.8	85.7	67.3	60.4	59.4	59.4
52.5°	5236.8	3901.1	268.9	168.6	136.4	99.4	72.1	59.4	53.6	50.7	50.7
55°	5761.9	4086.2	218.2	141.3	107.2	78.9	62.3	53.6	46.7	42.8	41.9
57.5°	6158.5	4108.6	163.6	113.0	79.9	61.4	53.6	46.7	39.0	34.1	32.2
60°	6328.0	3914.7	120.8	85.7	59.4	48.7	42.8	38.0	29.2	24.4	23.4
62.5°	6157.5	3537.6	89.7	65.3	45.8	36.0	30.2	28.3	20.4	14.6	13.6
65°	5546.6	2993.0	71.1	49.7	34.1	26.3	19.5	18.5	12.7	6.8	5.9
67.5°	4443.7	2344.1	56.5	37.0	24.4	17.5	12.7	11.7	6.8	2.0	2.0
70°	2889.7	1498.4	45.8	27.2	15.6	11.7	7.8	5.9	3.9	0.9	0.0
72.5°	1429.3	700.6	37.0	21.5	10.7	5.9	2.9	2.0	2.9	0.0	0.0
75°	554.4	249.4	27.2	14.6	5.9	2.9	2.0	0.0	0.9	0.0	0.0
77.5°	184.2	82.8	16.6	7.8	3.9	2.0	0.0	0.0	0.0	0.0	0.0
80°	68.2	32.2	8.8	4.9	2.0	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	27.2	12.7	5.9	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.6	7.8	3.9	2.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	5.9	3.9	2.9	2.0	0.9	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)