

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: P648341

Luminaire Tested: **GALN-SA3B-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7942.8 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

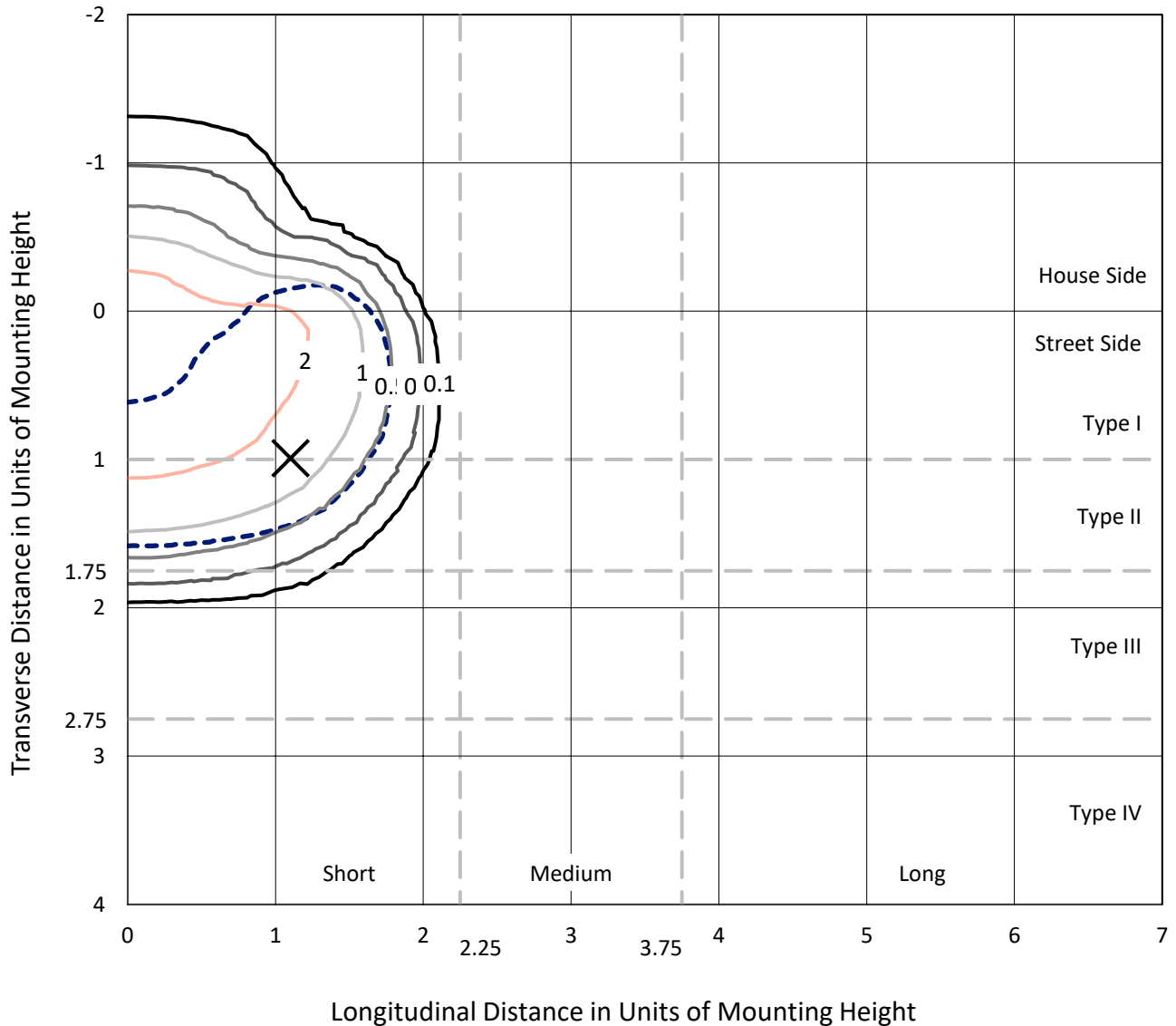
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

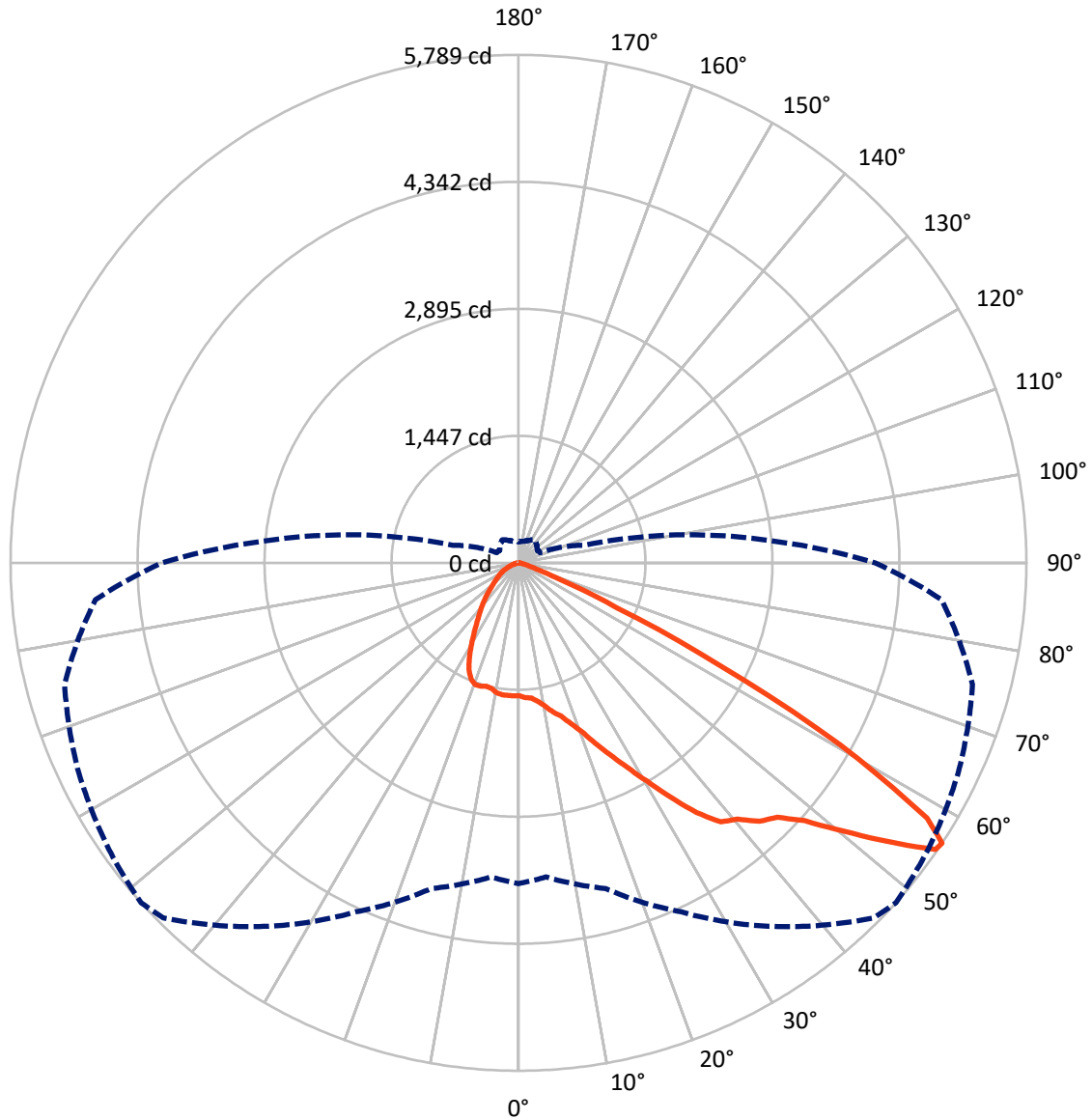
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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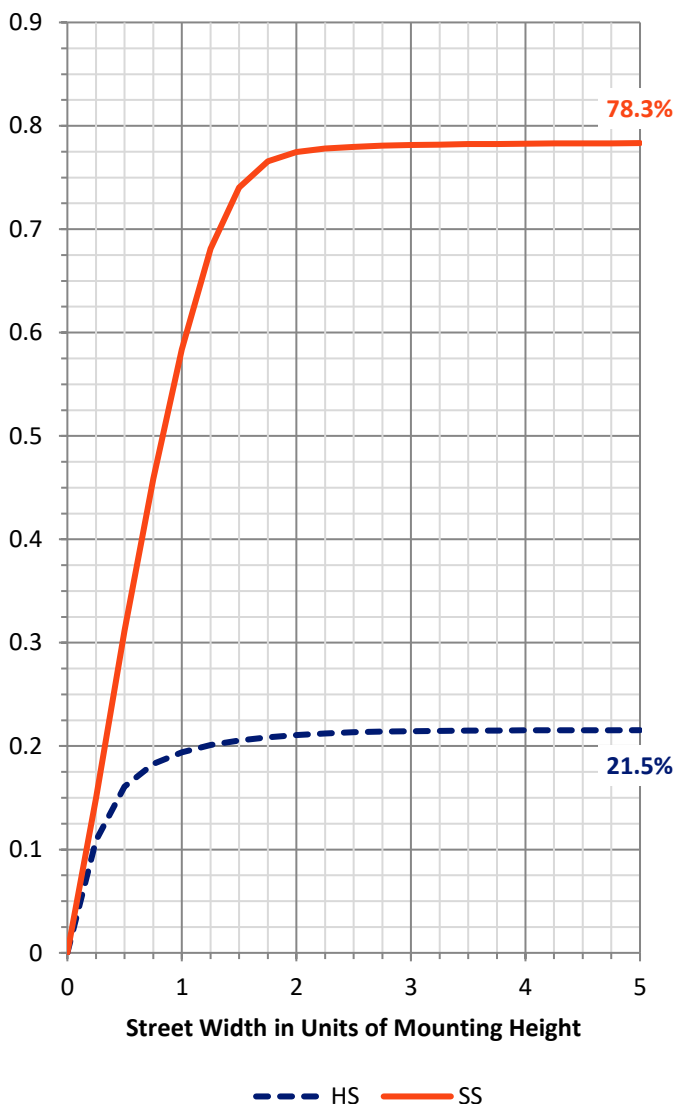
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1727.4	0.0	1727.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	6215.4	0.0	6215.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	7942.8	0.0	7942.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	1.9
10°-20°	472.3	5.9
20°-30°	856.6	10.8
30°-40°	1345.6	16.9
40°-50°	1962.9	24.7
50°-60°	2365.0	29.8
60°-70°	692.4	8.7
70°-80°	87.9	1.1
80°-90°	12.3	0.2
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°	7942.8	100.0
0°-180°	7942.8	100.0

Coefficient of Utilization



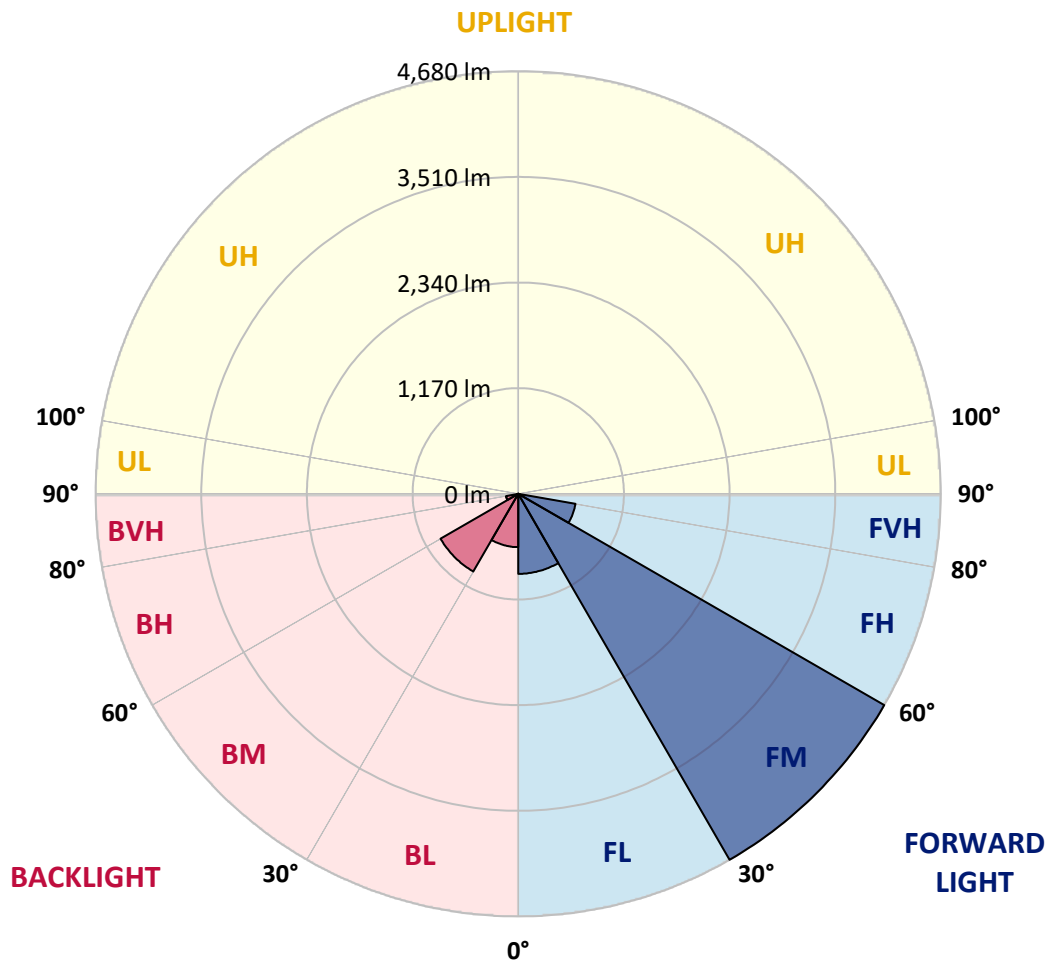
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	886.3	11.2			
FM (30°-60°)	4679.9	58.9			
FH (60°-80°)	643.0	8.1			G0/660
FVH (80°-90°)	6.2	0.1			G0/10
BL (0°-30°)	590.4	7.4	B2/1000		
BM (30°-60°)	993.6	12.5	B1/1000		
BH (60°-80°)	137.3	1.7	B1/500		G1/500
BVH (80°-90°)	6.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1517.1	1517.1	1517.1	1517.1	1517.1	1517.1	1517.1	1517.1	1517.1	1517.1	1517.1
2.5°	1544.5	1537.3	1537.3	1525.8	1538.8	1533.0	1537.3	1522.9	1537.3	1515.7	1533.0
5°	1551.7	1553.2	1547.4	1554.6	1554.6	1563.3	1548.9	1561.9	1569.1	1553.2	1546.0
7.5°	1589.4	1592.3	1590.8	1585.0	1596.6	1595.1	1593.7	1583.6	1586.5	1580.7	1572.0
10°	1663.2	1661.7	1668.9	1654.5	1645.8	1655.9	1658.8	1642.9	1631.3	1627.0	1599.5
12.5°	1770.1	1752.8	1742.6	1728.2	1732.5	1718.1	1744.1	1716.6	1710.9	1684.9	1657.4
15°	1857.0	1854.1	1855.5	1832.4	1806.3	1812.1	1812.1	1797.6	1788.9	1757.1	1718.1
17.5°	2034.8	1974.1	1987.1	1958.1	1936.4	1935.0	1922.0	1924.9	1901.8	1835.2	1775.9
20°	2173.6	2147.6	2127.3	2078.2	2045.0	2055.1	2049.3	2034.8	2027.6	1940.8	1857.0
22.5°	2298.0	2306.7	2273.4	2260.4	2214.2	2218.5	2230.1	2217.1	2162.1	2072.4	1948.0
25°	2473.0	2462.8	2418.1	2402.2	2358.8	2374.7	2419.5	2409.4	2374.7	2212.7	2018.9
27.5°	2679.8	2645.1	2653.8	2581.5	2539.5	2584.4	2637.8	2688.5	2590.2	2377.6	2102.7
30°	2825.8	2789.8	2786.9	2784.0	2773.9	2825.8	2888.1	2934.4	2854.8	2542.4	2241.7
32.5°	2898.2	2906.9	2931.5	2922.8	3011.0	3118.0	3183.1	3249.6	3149.9	2811.4	2425.3
35°	3090.5	3035.6	3090.5	3096.3	3187.4	3414.5	3497.0	3656.0	3631.4	3191.7	2649.4
37.5°	3203.3	3199.0	3206.2	3261.2	3349.4	3630.0	3747.1	3870.1	3823.8	3420.3	2928.6
40°	3389.9	3401.5	3400.0	3442.0	3538.8	3791.9	3839.7	3939.4	3943.8	3737.0	3339.3
42.5°	3689.3	3643.0	3612.6	3656.0	3791.9	3932.2	4027.7	4007.5	4150.6	4121.7	3867.2
45°	3958.3	3985.7	3940.9	4013.2	4062.4	4137.6	4134.7	4178.1	4360.3	4497.7	4264.8
47.5°	4209.9	4227.3	4248.9	4298.1	4405.2	4416.7	4392.2	4373.3	4624.9	4766.7	4572.9
50°	4360.3	4376.2	4477.4	4565.7	4765.3	4791.3	4805.7	4758.0	4928.7	4944.6	4863.6
52.5°	4319.8	4337.2	4478.9	4769.6	5087.8	5326.4	5283.0	5202.0	5191.8	5254.1	5132.6
55°	3961.1	3945.2	4140.5	4593.2	5189.0	5761.7	5767.5	5682.2	5518.7	5476.8	5092.1
56°	3656.0	3593.8	3842.6	4389.3	5058.8	5724.0	5789.2	5698.0	5544.7	5356.7	4841.9
57.5°	2995.1	3054.4	3301.7	3754.3	4609.1	5453.7	5491.3	5469.6	5353.8	5038.6	4260.5
60°	1651.6	1755.7	1974.1	2528.0	3281.5	4185.3	4215.7	4392.2	4413.8	3858.5	2931.5
62.5°	701.4	689.8	916.9	1324.8	1868.5	2526.5	2583.0	2763.7	2797.0	2224.3	1470.8
65°	284.9	300.8	415.1	666.7	987.8	1151.2	1230.7	1290.0	1399.9	918.3	542.3
67.5°	188.0	186.6	244.4	380.4	532.2	513.4	513.4	542.3	501.8	374.6	234.3
70°	134.5	138.8	175.0	263.2	331.2	245.9	235.8	225.6	256.0	247.3	189.5
72.5°	88.2	94.0	117.1	157.6	172.1	134.5	134.5	162.0	211.2	199.6	154.7
75°	57.9	59.3	72.3	91.1	85.3	69.5	76.7	108.4	153.3	147.5	109.9
77.5°	39.1	40.5	49.2	59.3	47.8	39.1	42.0	55.0	75.2	75.2	57.9
80°	14.5	15.9	20.3	18.8	21.7	27.5	30.4	37.6	44.9	44.9	39.1
82.5°	0.0	1.4	4.3	10.1	15.9	21.7	24.6	28.9	33.3	37.6	36.2
85°	0.0	1.4	4.3	7.2	11.6	13.0	14.5	10.1	8.7	8.7	7.2
87.5°	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	2.9	1.4	1.4
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°	1517.1	1517.1	1517.1	1517.1	1517.1	1517.1	1517.1	1517.1	1517.1	1517.1	1517.1
2.5°	1517.1	1515.7	1515.7	1511.3	1520.0	1515.7	1518.6	1517.1	1498.3	1512.8	1502.6
5°	1533.0	1543.1	1527.2	1524.3	1512.8	1517.1	1517.1	1502.6	1515.7	1514.2	1511.3
7.5°	1573.4	1556.1	1538.8	1521.4	1518.6	1514.2	1498.3	1492.5	1502.6	1491.1	1508.4
10°	1590.8	1593.7	1567.7	1544.5	1522.9	1492.5	1470.8	1457.8	1441.9	1459.2	1469.4
12.5°	1670.4	1641.5	1596.6	1560.4	1486.7	1456.3	1434.6	1428.8	1456.3	1462.1	1452.0
15°	1697.9	1693.5	1635.7	1554.6	1478.0	1441.9	1446.2	1434.6	1437.5	1423.1	1425.9
17.5°	1754.2	1705.1	1637.1	1535.9	1476.6	1467.9	1441.9	1395.6	1369.5	1358.0	1368.1
20°	1816.4	1768.7	1670.4	1543.1	1489.6	1466.5	1381.1	1324.8	1271.2	1242.3	1243.7
22.5°	1871.4	1812.1	1655.9	1546.0	1501.2	1405.7	1303.1	1191.6	1125.2	1080.3	1081.8
25°	1937.9	1854.1	1661.7	1551.7	1470.8	1308.8	1161.3	1052.8	973.3	942.9	953.1
27.5°	1975.5	1880.1	1693.5	1564.8	1391.2	1171.4	1012.3	911.1	864.8	850.3	848.9
30°	2088.3	1937.9	1732.5	1538.8	1258.2	1023.9	876.4	814.2	769.4	756.4	759.3
32.5°	2256.1	2043.5	1783.2	1470.8	1122.3	892.3	788.2	741.9	700.0	675.4	672.5
35°	2396.4	2224.3	1836.7	1365.2	964.7	791.1	726.0	668.1	604.5	577.1	569.8
37.5°	2663.9	2428.2	1825.1	1206.1	814.2	715.9	659.4	588.6	533.6	496.0	491.7
40°	3019.6	2666.8	1768.7	1012.3	702.8	649.3	588.6	520.6	452.7	420.9	418.0
42.5°	3452.1	2959.0	1666.0	815.7	591.5	582.8	527.9	449.8	389.0	365.9	367.3
45°	3803.5	3209.1	1561.9	655.1	509.0	517.7	470.0	396.3	354.3	335.5	335.5
47.5°	4115.9	3378.3	1449.1	540.9	432.5	452.7	410.7	367.3	331.2	316.7	313.8
50°	4416.7	3550.4	1336.3	438.2	368.8	389.0	384.7	350.0	321.0	303.7	305.1
52.5°	4604.7	3577.9	1193.1	358.7	322.5	345.6	360.1	328.3	296.4	286.3	283.4
55°	4374.8	3223.6	925.6	295.0	273.3	303.7	331.2	295.0	270.4	253.1	251.7
56°	4065.3	2882.3	773.7	271.9	258.9	292.1	321.0	282.0	254.6	244.4	237.2
57.5°	3442.0	2358.8	571.3	241.5	240.1	271.9	305.1	269.0	237.2	228.5	228.5
60°	2146.2	1327.7	345.6	202.5	208.3	241.5	274.8	240.1	211.2	211.2	215.5
62.5°	977.7	552.5	209.7	172.1	179.3	208.3	244.4	217.0	201.0	217.0	219.8
65°	332.6	238.7	151.8	137.4	141.7	172.1	209.7	219.8	218.4	228.5	234.3
67.5°	186.6	153.3	127.2	114.2	111.3	127.2	172.1	219.8	211.2	206.8	209.7
70°	157.6	130.1	112.8	101.2	96.9	102.7	133.0	166.3	148.9	144.6	141.7
72.5°	127.2	108.4	98.3	91.1	78.1	66.6	60.8	63.7	70.9	75.2	82.4
75°	89.7	82.4	82.4	73.8	56.4	42.0	33.3	27.5	18.8	13.0	14.5
77.5°	50.6	50.6	52.1	44.9	36.2	27.5	20.3	14.5	7.2	2.9	1.4
80°	34.7	37.6	40.5	36.2	30.4	24.6	17.4	10.1	4.3	0.0	0.0
82.5°	34.7	39.1	42.0	36.2	30.4	23.2	17.4	10.1	4.3	1.4	0.0
85°	7.2	8.7	10.1	11.6	17.4	17.4	13.0	8.7	4.3	1.4	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	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)