

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: P651806

Luminaire Tested: **GALN-SA3A-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651806
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-SA3A-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA 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: 6855.8 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

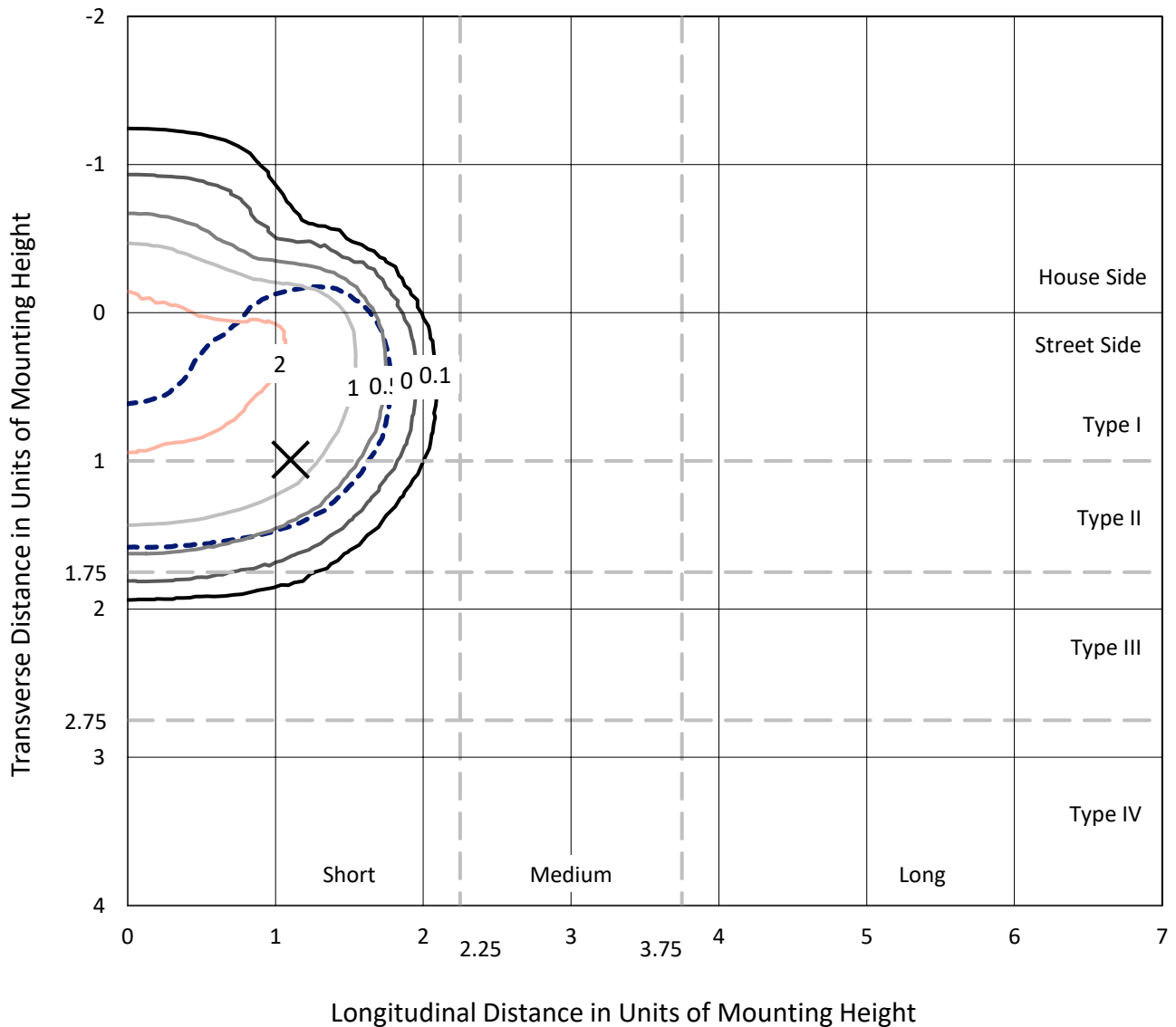
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

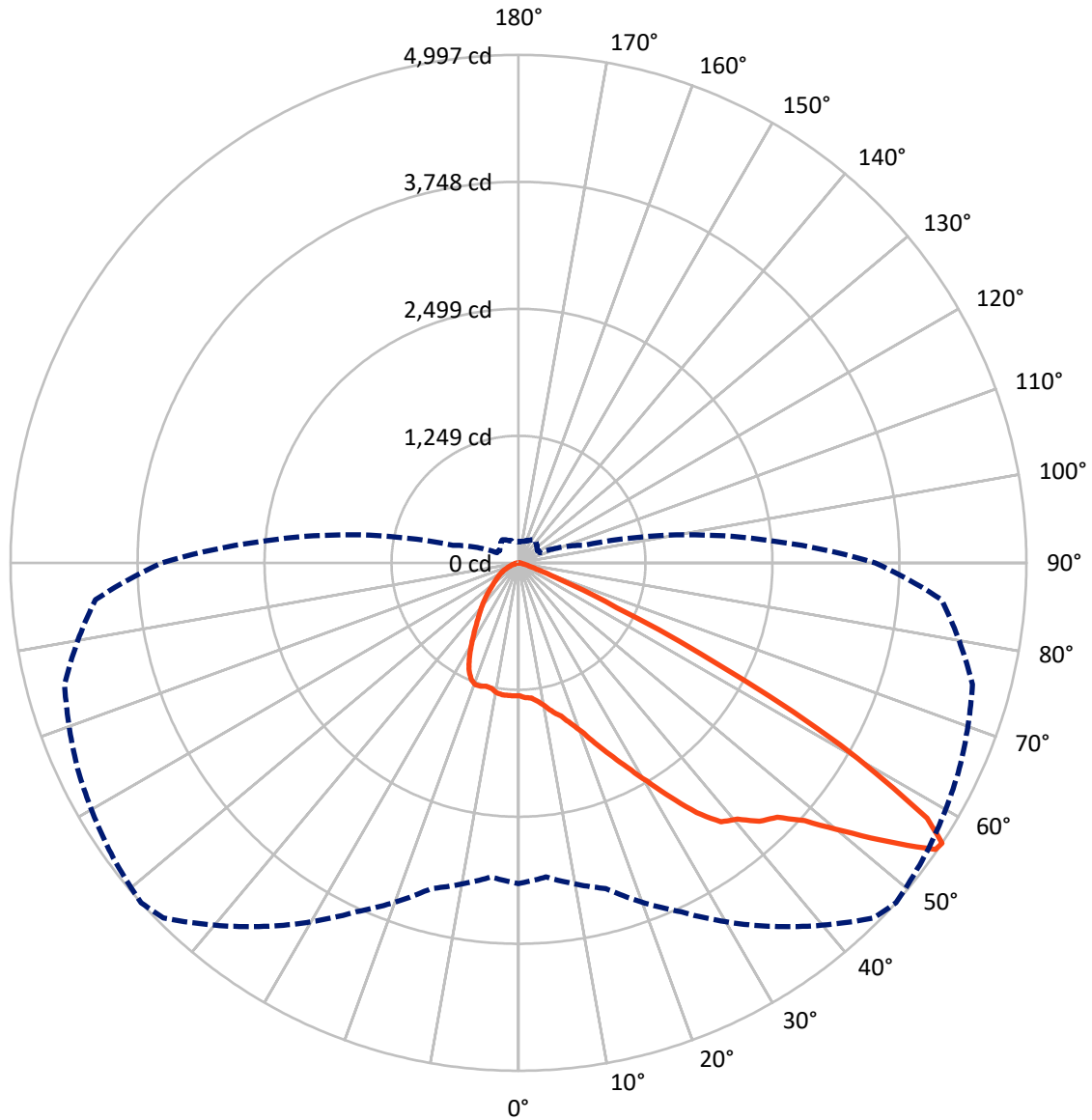
✕ Max cd
 - - - 1/2 Max cd



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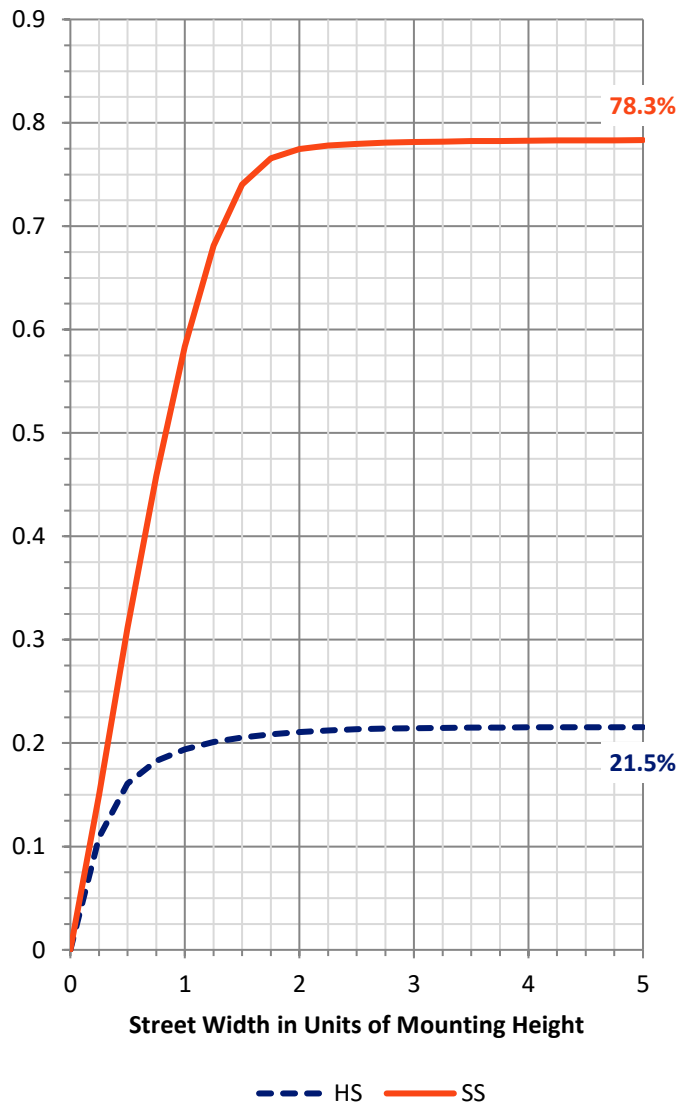
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1491.0	0.0	1491.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	5364.8	0.0	5364.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	6855.8	0.0	6855.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	1.9
10°-20°	407.6	5.9
20°-30°	739.4	10.8
30°-40°	1161.4	16.9
40°-50°	1694.3	24.7
50°-60°	2041.3	29.8
60°-70°	597.7	8.7
70°-80°	75.8	1.1
80°-90°	10.6	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°	6855.8	100.0
0°-180°	6855.8	100.0

Coefficient of Utilization



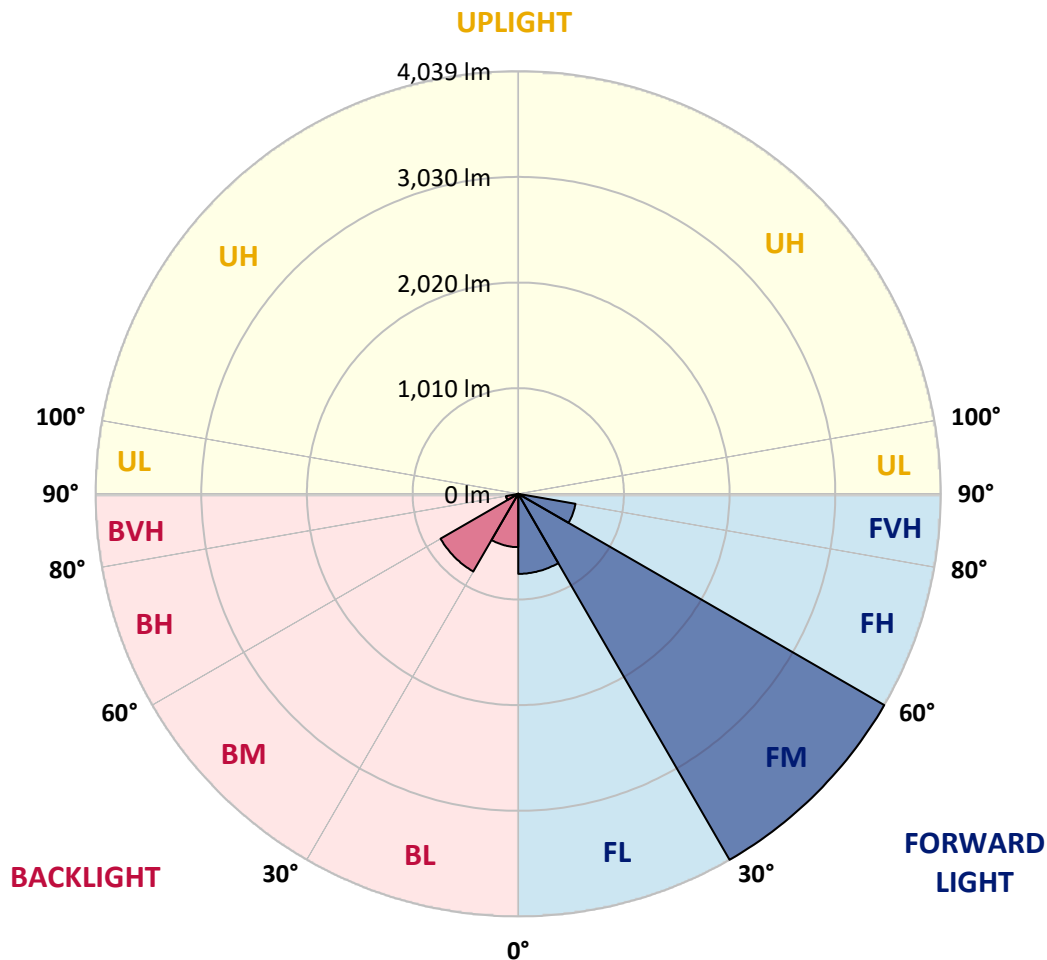
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	765.0	11.2			
FM (30°-60°)	4039.5	58.9			
FH (60°-80°)	555.0	8.1			G0/660
FVH (80°-90°)	5.3	0.1			G0/10
BL (0°-30°)	509.6	7.4	B2/1000		
BM (30°-60°)	857.6	12.5	B1/1000		
BH (60°-80°)	118.5	1.7	B1/500		G1/500
BVH (80°-90°)	5.3	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°	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4
2.5°	1333.2	1326.9	1326.9	1316.9	1328.2	1323.2	1326.9	1314.5	1326.9	1308.3	1323.2
5°	1339.5	1340.6	1335.7	1341.9	1341.9	1349.4	1336.9	1348.1	1354.4	1340.6	1334.4
7.5°	1371.9	1374.4	1373.1	1368.1	1378.1	1376.9	1375.6	1366.9	1369.4	1364.4	1356.9
10°	1435.6	1434.3	1440.5	1428.0	1420.5	1429.3	1431.8	1418.1	1408.1	1404.3	1380.6
12.5°	1527.9	1513.0	1504.2	1491.7	1495.5	1483.0	1505.5	1481.8	1476.7	1454.3	1430.5
15°	1602.8	1600.3	1601.6	1581.6	1559.1	1564.1	1564.1	1551.6	1544.2	1516.7	1483.0
17.5°	1756.3	1704.0	1715.1	1690.2	1671.5	1670.2	1659.0	1661.5	1641.5	1584.1	1532.9
20°	1876.2	1853.7	1836.2	1793.8	1765.1	1773.8	1768.9	1756.3	1750.1	1675.2	1602.8
22.5°	1983.6	1991.1	1962.3	1951.1	1911.2	1914.9	1924.9	1913.6	1866.2	1788.8	1681.5
25°	2134.6	2125.9	2087.2	2073.4	2036.0	2049.7	2088.4	2079.7	2049.7	1909.9	1742.6
27.5°	2313.1	2283.1	2290.6	2228.2	2192.0	2230.8	2276.9	2320.6	2235.7	2052.2	1815.0
30°	2439.2	2408.0	2405.5	2403.0	2394.2	2439.2	2492.9	2532.8	2464.1	2194.5	1934.9
32.5°	2501.6	2509.1	2530.3	2522.8	2598.9	2691.4	2747.5	2804.9	2718.8	2426.7	2093.4
35°	2667.7	2620.2	2667.7	2672.6	2751.2	2947.2	3018.3	3155.7	3134.5	2755.0	2286.8
37.5°	2765.0	2761.3	2767.5	2814.9	2891.0	3133.2	3234.3	3340.5	3300.5	2952.2	2527.8
40°	2926.0	2936.0	2934.8	2970.9	3054.6	3273.0	3314.2	3400.3	3404.1	3225.6	2882.4
42.5°	3184.4	3144.5	3118.3	3155.7	3273.0	3394.1	3476.5	3459.0	3582.7	3557.7	3337.9
45°	3416.6	3440.3	3401.6	3464.0	3506.5	3571.4	3568.9	3606.4	3763.6	3882.2	3681.2
47.5°	3633.8	3648.8	3667.5	3710.0	3802.3	3812.3	3791.1	3774.8	3992.1	4114.4	3947.1
50°	3763.6	3777.4	3864.7	3940.8	4113.2	4135.6	4148.1	4106.9	4254.2	4267.9	4198.0
52.5°	3728.7	3743.6	3866.0	4116.9	4391.5	4597.5	4560.1	4490.1	4481.4	4535.1	4430.2
55°	3419.1	3405.4	3573.9	3964.6	4478.9	4973.3	4978.2	4904.5	4763.5	4727.3	4395.2
56°	3155.7	3102.0	3316.7	3788.6	4366.6	4940.8	4997.0	4918.3	4786.0	4623.7	4179.3
57.5°	2585.2	2636.5	2849.9	3240.6	3978.4	4707.3	4739.8	4721.0	4621.2	4349.1	3677.5
60°	1425.6	1515.4	1704.0	2182.1	2832.4	3612.6	3638.8	3791.1	3809.8	3330.4	2530.3
62.5°	605.4	595.4	791.4	1143.4	1612.8	2180.8	2229.5	2385.5	2414.2	1919.9	1269.5
65°	245.9	259.6	358.3	575.5	852.6	993.6	1062.3	1113.5	1208.3	792.6	468.1
67.5°	162.3	161.1	210.9	328.3	459.4	443.1	443.1	468.1	433.2	323.3	202.3
70°	116.1	119.8	151.0	227.2	285.9	212.2	203.4	194.8	220.9	213.4	163.5
72.5°	76.1	81.2	101.1	136.1	148.5	116.1	116.1	139.8	182.2	172.2	133.6
75°	50.0	51.2	62.4	78.6	73.7	59.9	66.2	93.6	132.3	127.3	94.9
77.5°	33.7	35.0	42.5	51.2	41.2	33.7	36.2	47.4	64.9	64.9	50.0
80°	12.4	13.7	17.5	16.2	18.8	23.7	26.2	32.5	38.7	38.7	33.7
82.5°	0.0	1.3	3.8	8.7	13.7	18.8	21.2	25.0	28.7	32.5	31.2
85°	0.0	1.3	3.8	6.2	10.0	11.3	12.4	8.7	7.5	7.5	6.2
87.5°	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	2.5	1.3	1.3
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°	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4
2.5°	1309.4	1308.3	1308.3	1304.5	1312.0	1308.3	1310.7	1309.4	1293.2	1305.7	1297.0
5°	1323.2	1332.0	1318.2	1315.7	1305.7	1309.4	1309.4	1297.0	1308.3	1307.0	1304.5
7.5°	1358.1	1343.2	1328.2	1313.2	1310.7	1307.0	1293.2	1288.2	1297.0	1287.0	1302.0
10°	1373.1	1375.6	1353.2	1333.2	1314.5	1288.2	1269.5	1258.3	1244.6	1259.6	1268.3
12.5°	1441.8	1416.8	1378.1	1346.9	1283.3	1257.0	1238.3	1233.3	1257.0	1262.0	1253.3
15°	1465.5	1461.7	1411.8	1341.9	1275.8	1244.6	1248.3	1238.3	1240.8	1228.4	1230.8
17.5°	1514.2	1471.8	1413.0	1325.7	1274.5	1267.1	1244.6	1204.6	1182.1	1172.2	1180.9
20°	1567.9	1526.7	1441.8	1332.0	1285.7	1265.8	1192.1	1143.4	1097.3	1072.3	1073.5
22.5°	1615.3	1564.1	1429.3	1334.4	1295.7	1213.3	1124.8	1028.6	971.2	932.5	933.8
25°	1672.7	1600.3	1434.3	1339.5	1269.5	1129.7	1002.4	908.8	840.1	813.9	822.7
27.5°	1705.2	1622.8	1461.7	1350.6	1200.9	1011.1	873.8	786.4	746.5	734.0	732.8
30°	1802.5	1672.7	1495.5	1328.2	1086.0	883.8	756.5	702.8	664.1	652.9	655.4
32.5°	1947.3	1763.8	1539.1	1269.5	968.7	770.2	680.3	640.3	604.2	583.0	580.5
35°	2068.4	1919.9	1585.4	1178.4	832.6	682.8	626.6	576.7	521.8	498.0	491.8
37.5°	2299.4	2095.9	1575.4	1041.1	702.8	617.9	569.2	508.0	460.6	428.2	424.5
40°	2606.4	2301.9	1526.7	873.8	606.7	560.5	508.0	449.3	390.7	363.2	360.8
42.5°	2979.7	2554.0	1438.0	704.0	510.6	503.1	455.7	388.2	335.8	315.8	317.1
45°	3283.0	2770.0	1348.1	565.5	439.4	446.9	405.7	342.0	305.9	289.6	289.6
47.5°	3552.6	2916.0	1250.8	466.8	373.2	390.7	354.5	317.1	285.9	273.4	270.9
50°	3812.3	3064.6	1153.4	378.2	318.3	335.8	332.0	302.1	277.1	262.1	263.4
52.5°	3974.6	3088.3	1029.9	309.6	278.4	298.3	310.8	283.3	255.9	247.2	244.6
55°	3776.1	2782.4	798.9	254.7	235.9	262.1	285.9	254.7	233.5	218.5	217.2
56°	3509.0	2487.8	667.8	234.6	223.5	252.1	277.1	243.4	219.7	210.9	204.7
57.5°	2970.9	2036.0	493.1	208.5	207.2	234.6	263.4	232.2	204.7	197.2	197.2
60°	1852.5	1145.9	298.3	174.8	179.7	208.5	237.2	207.2	182.2	182.2	186.0
62.5°	843.9	476.8	181.0	148.5	154.8	179.7	210.9	187.2	173.5	187.2	189.7
65°	287.1	206.0	131.1	118.6	122.4	148.5	181.0	189.7	188.5	197.2	202.3
67.5°	161.1	132.3	109.8	98.6	96.1	109.8	148.5	189.7	182.2	178.5	181.0
70°	136.1	112.4	97.4	87.4	83.6	88.6	114.9	143.6	128.6	124.8	122.4
72.5°	109.8	93.6	84.9	78.6	67.4	57.4	52.4	54.9	61.1	64.9	71.1
75°	77.4	71.1	71.1	63.7	48.7	36.2	28.7	23.7	16.2	11.3	12.4
77.5°	43.7	43.7	44.9	38.7	31.2	23.7	17.5	12.4	6.2	2.5	1.3
80°	29.9	32.5	35.0	31.2	26.2	21.2	15.0	8.7	3.8	0.0	0.0
82.5°	29.9	33.7	36.2	31.2	26.2	19.9	15.0	8.7	3.8	1.3	0.0
85°	6.2	7.5	8.7	10.0	15.0	15.0	11.3	7.5	3.8	1.3	0.0
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	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)