

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: P458652

Luminaire Tested: **GALN-SA2A-735-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6707 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

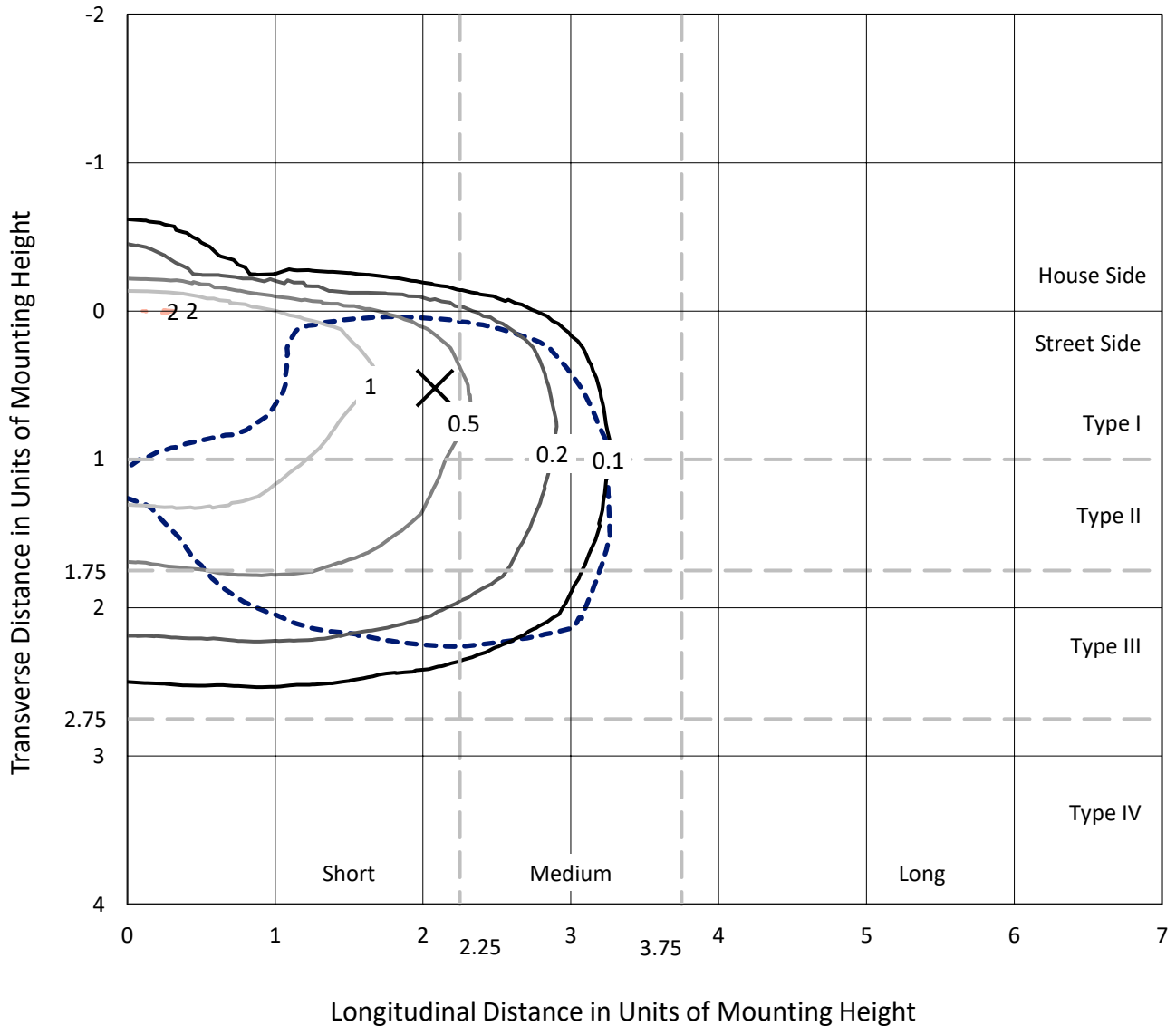
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

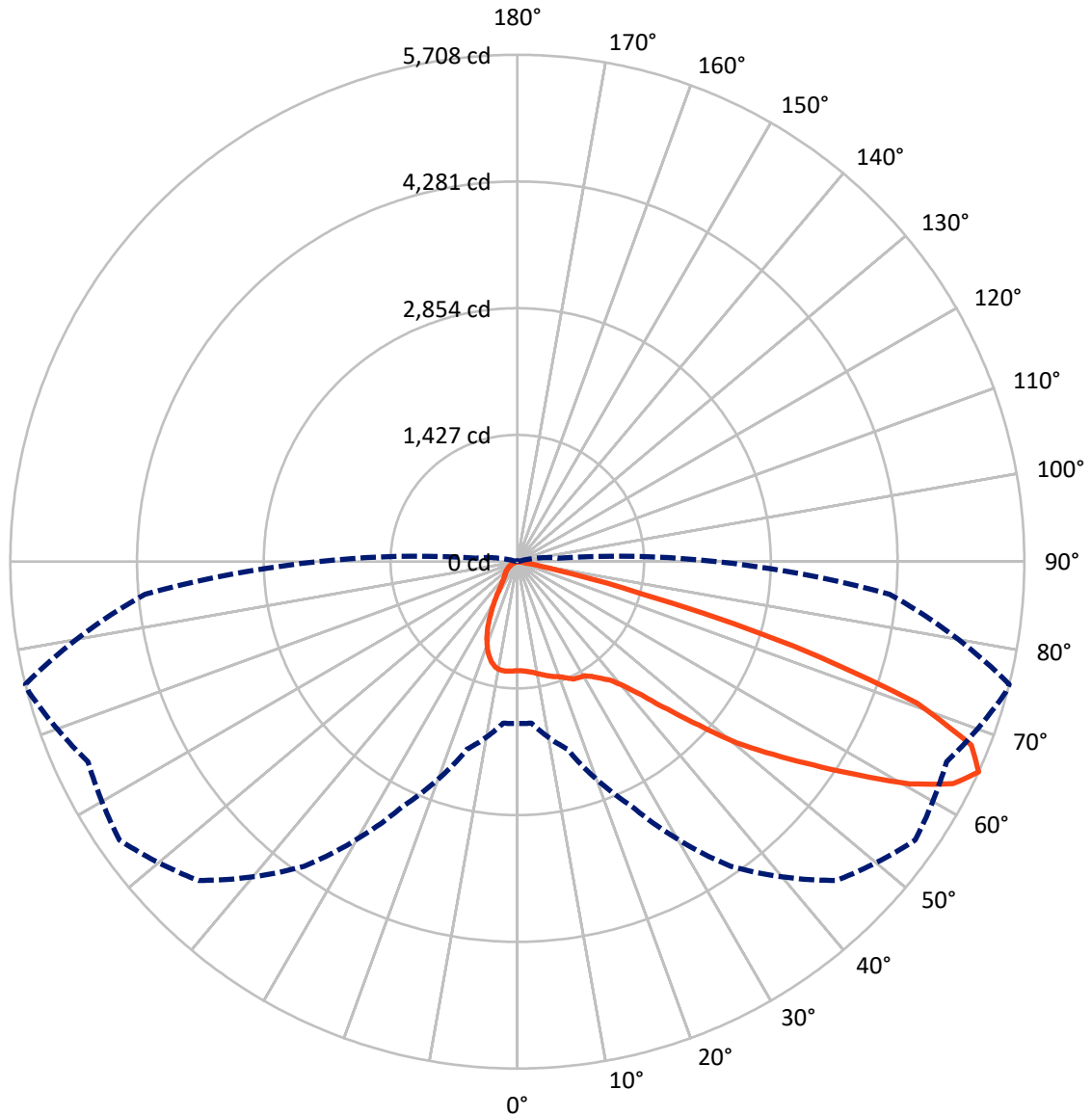
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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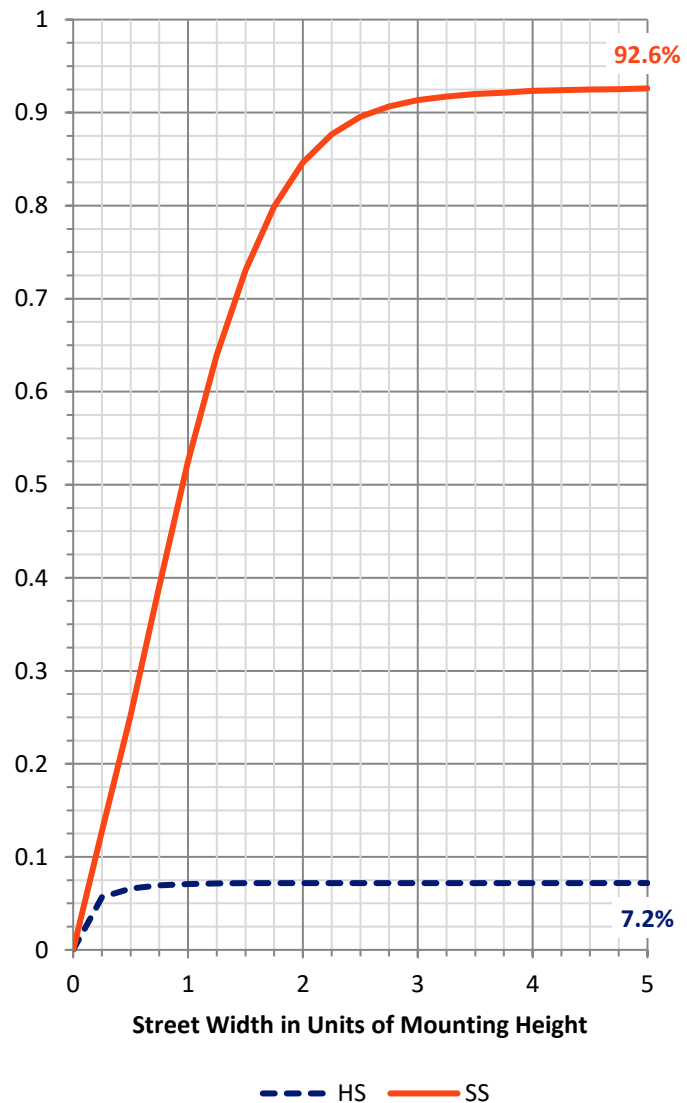
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	484.4	0.0	484.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	6222.6	0.0	6222.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	6707.0	0.0	6707.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	1.5
10°-20°	225.0	3.4
20°-30°	362.6	5.4
30°-40°	630.5	9.4
40°-50°	1041.9	15.5
50°-60°	1609.5	24.0
60°-70°	1965.5	29.3
70°-80°	745.9	11.1
80°-90°	24.9	0.4
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°	6707.0	100.0
0°-180°	6707.0	100.0



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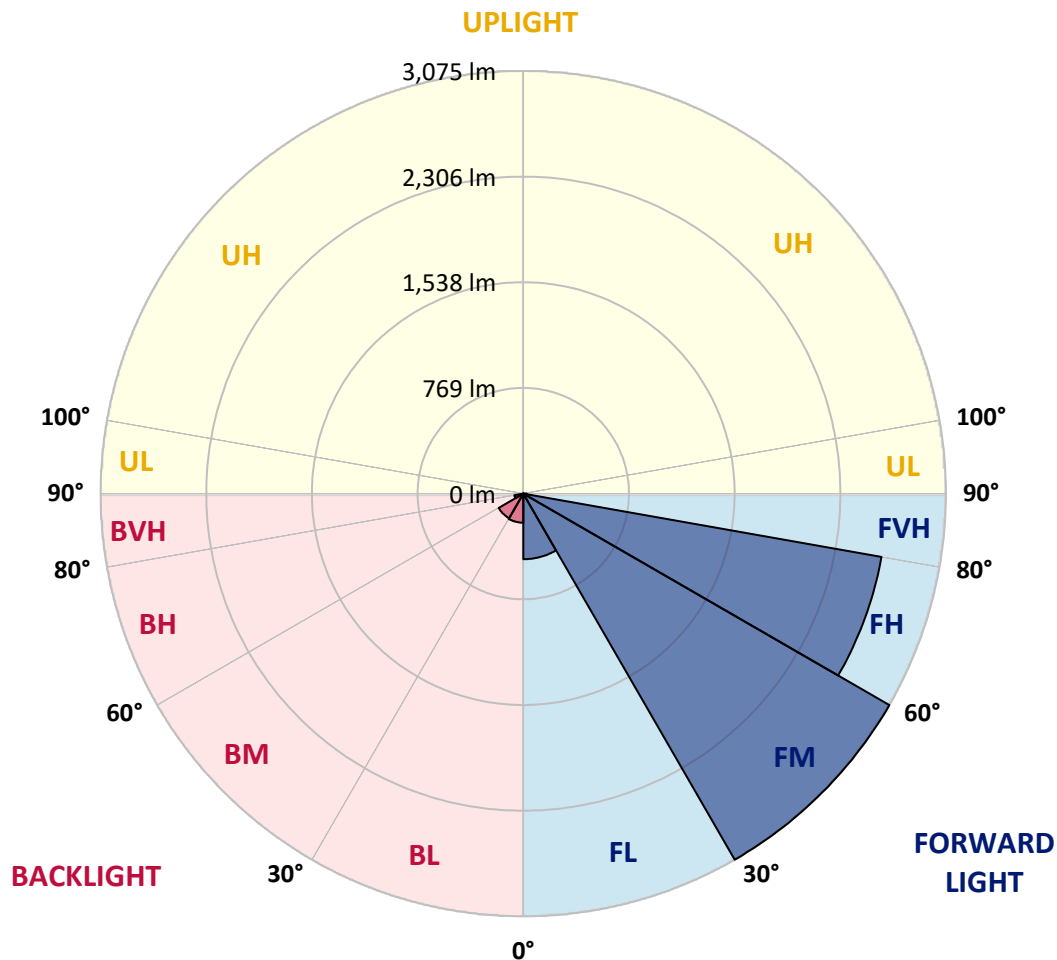
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	477.1	7.1			
FM (30°-60°)	3075.3	45.9			
FH (60°-80°)	2645.7	39.4			G2/5000
FVH (80°-90°)	24.6	0.4			G1/100
BL (0°-30°)	211.6	3.2	B1/500		
BM (30°-60°)	206.7	3.1	B0/220		
BH (60°-80°)	65.7	1.0	B0/110		G0/110
BVH (80°-90°)	0.3	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1226.9	1226.9	1226.9	1226.9	1226.9	1226.9	1226.9	1226.9	1226.9	1226.9	1226.9
2.5°	1172.5	1172.9	1175.8	1182.9	1193.8	1202.8	1210.4	1222.7	1231.2	1232.1	1235.0
5°	1091.5	1085.8	1091.5	1110.0	1126.5	1151.6	1182.4	1213.2	1240.7	1242.6	1255.8
7.5°	1000.6	1005.3	1014.3	1033.2	1064.5	1102.9	1147.4	1202.3	1254.4	1259.1	1285.2
10°	908.2	918.7	933.3	962.2	1005.8	1055.5	1116.1	1194.7	1276.2	1282.8	1327.8
12.5°	823.0	827.7	845.7	884.6	938.5	1008.6	1092.4	1190.5	1300.3	1308.4	1373.2
15°	757.7	763.8	779.4	814.5	874.6	964.6	1073.0	1189.0	1324.0	1335.4	1418.7
17.5°	745.3	749.1	755.8	779.4	832.0	929.5	1055.5	1188.6	1346.7	1360.5	1460.8
20°	796.0	792.7	786.1	783.7	812.6	902.6	1042.7	1192.4	1368.5	1384.1	1505.4
22.5°	922.9	927.2	888.3	842.4	832.9	898.3	1040.8	1210.4	1403.1	1421.5	1555.1
25°	1192.4	1159.7	1099.1	989.2	906.3	924.3	1062.1	1253.0	1443.3	1463.7	1600.1
27.5°	1490.2	1480.3	1386.0	1205.1	1050.8	979.3	1100.0	1285.6	1456.6	1477.4	1625.6
30°	1782.9	1794.7	1686.7	1486.9	1260.5	1081.1	1135.5	1298.0	1468.4	1490.2	1658.3
32.5°	2054.2	2068.4	1973.7	1775.7	1507.7	1257.2	1196.6	1345.8	1518.1	1540.4	1712.8
35°	2267.8	2269.6	2198.1	2040.5	1777.6	1471.3	1328.7	1429.6	1585.4	1611.4	1770.5
37.5°	2463.8	2461.0	2377.1	2241.2	2002.6	1683.9	1494.9	1526.2	1662.1	1689.1	1853.9
40°	2609.2	2611.1	2584.1	2456.2	2212.3	1880.4	1626.6	1616.6	1790.9	1833.0	1975.1
42.5°	2706.2	2723.8	2737.0	2672.1	2476.1	2122.4	1828.8	1810.3	2014.4	2049.5	2146.5
45°	2784.8	2816.1	2882.4	2879.1	2729.4	2419.3	2106.3	2068.4	2331.2	2368.6	2364.8
47.5°	2842.1	2873.9	2983.7	3050.0	2967.6	2707.2	2455.3	2422.6	2709.6	2750.3	2605.9
50°	2871.5	2909.4	3049.6	3177.9	3153.7	2984.7	2853.0	2854.9	3166.5	3205.8	2885.2
52.5°	2802.8	2852.1	3084.6	3315.7	3362.6	3250.3	3225.7	3288.2	3573.3	3606.9	3137.6
55°	2583.6	2645.6	3036.8	3433.1	3604.5	3563.8	3649.0	3744.2	4017.9	4039.7	3396.7
57.5°	2444.9	2510.7	2895.7	3533.0	3895.3	3957.8	4092.7	4162.4	4476.8	4532.2	3694.0
60°	2327.9	2379.5	2779.6	3554.3	4190.8	4439.8	4571.0	4643.0	5043.1	5079.1	4021.2
62.5°	2133.3	2192.5	2583.6	3405.7	4339.5	4825.8	5097.6	5065.4	5481.1	5506.2	4222.0
65°	1820.3	1825.5	2185.8	3032.0	4186.0	5076.3	5467.4	5332.5	5690.4	5707.5	4206.4
67.5°	1358.6	1408.8	1681.5	2383.3	3535.9	4862.2	5587.2	5339.6	5558.3	5511.0	3872.6
70°	875.1	913.4	1139.8	1652.6	2549.5	4057.7	5189.9	4973.5	4878.3	4773.2	3169.8
72.5°	403.9	453.2	677.2	944.2	1512.0	2890.4	4213.0	4040.7	3511.2	3251.8	2014.9
75°	176.2	188.5	334.3	498.2	708.9	1528.6	2777.7	2508.3	1585.9	1448.5	806.4
77.5°	107.5	115.5	175.2	267.1	278.4	582.4	1496.4	1094.3	490.1	432.3	218.8
80°	72.9	81.9	127.4	139.7	95.2	162.4	561.6	292.2	99.0	94.7	46.9
82.5°	35.5	45.0	94.2	78.1	41.2	52.1	163.4	62.5	28.9	27.0	16.6
85°	5.2	9.0	53.0	51.1	18.5	12.3	28.9	15.6	9.9	9.5	7.6
87.5°	0.0	0.0	18.0	8.1	1.9	1.9	3.3	3.3	3.8	3.3	3.8
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°	1226.9	1226.9	1226.9	1226.9	1226.9	1226.9	1226.9	1226.9	1226.9	1226.9	1226.9
2.5°	1236.4	1238.8	1229.8	1217.0	1203.2	1189.5	1170.1	1152.6	1142.2	1148.3	1133.2
5°	1258.7	1256.8	1233.1	1194.3	1142.6	1080.6	1019.0	966.5	949.4	923.9	921.0
7.5°	1289.4	1284.2	1234.0	1145.0	1028.5	912.0	798.4	723.1	680.0	643.5	644.5
10°	1332.5	1317.4	1223.1	1058.3	866.6	690.9	546.0	446.5	403.5	389.7	378.8
12.5°	1377.0	1347.7	1192.8	941.4	674.8	472.1	331.9	271.3	244.8	236.3	235.3
15°	1416.8	1370.4	1139.8	800.7	490.6	301.6	226.3	206.5	203.1	203.6	203.1
17.5°	1456.1	1388.4	1066.4	651.6	333.4	216.4	194.6	189.9	191.3	193.2	192.7
20°	1488.8	1392.2	972.6	497.2	235.8	189.9	182.8	181.8	183.3	184.7	184.7
22.5°	1524.3	1395.0	861.4	344.3	192.7	176.6	172.8	172.8	174.7	176.6	177.1
25°	1550.8	1379.4	728.3	247.2	170.0	163.8	161.9	162.4	164.3	165.3	164.8
27.5°	1555.1	1335.4	587.2	189.4	154.4	148.2	146.3	148.2	145.8	147.3	146.3
30°	1558.9	1279.5	444.2	159.6	140.2	130.7	127.9	125.0	123.1	120.8	120.3
32.5°	1570.7	1213.7	324.4	143.5	126.9	116.5	109.9	101.8	95.7	93.8	93.3
35°	1575.9	1134.6	238.2	130.7	115.1	103.7	91.9	80.5	71.5	68.2	70.6
37.5°	1595.8	1057.9	184.7	121.2	104.7	90.4	75.3	61.1	52.6	50.7	51.6
40°	1636.5	974.5	154.8	113.2	95.7	78.1	59.7	45.9	40.3	38.4	37.9
42.5°	1701.9	891.7	137.8	105.6	86.7	65.8	46.9	36.0	31.3	29.8	29.8
45°	1781.4	812.1	126.0	97.5	77.2	53.0	36.9	28.9	26.0	25.1	25.1
47.5°	1886.1	742.5	116.0	89.5	66.8	42.1	29.8	25.1	23.2	23.7	24.2
50°	1992.2	690.9	105.1	80.5	54.9	34.6	25.6	22.3	21.8	22.3	22.3
52.5°	2072.2	660.6	90.4	68.2	43.1	28.9	22.7	20.8	20.4	19.4	19.4
55°	2180.1	653.9	72.0	55.4	34.1	24.2	20.4	18.9	17.5	16.6	16.1
57.5°	2318.9	661.5	55.4	43.1	26.5	19.9	18.0	15.6	13.7	11.8	11.8
60°	2405.1	644.5	43.1	33.1	19.4	16.1	13.7	11.4	9.0	7.6	7.1
62.5°	2377.6	572.5	34.1	24.6	13.7	11.8	9.0	7.6	5.2	3.8	3.3
65°	2236.0	462.2	27.5	17.0	9.9	7.1	4.7	4.7	2.4	0.5	0.0
67.5°	1957.1	342.4	21.8	11.4	5.7	3.3	2.4	1.4	0.0	0.0	0.0
70°	1593.0	247.2	17.0	7.1	3.3	2.4	0.9	0.5	0.0	0.0	0.0
72.5°	1011.5	141.6	13.3	4.3	2.4	0.9	0.0	0.0	0.0	0.0	0.0
75°	391.1	55.4	9.0	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	110.8	26.0	5.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	28.9	11.4	2.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.7	4.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.1	1.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	0.5	0.0	0.0	0.0	0.0	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)