

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: P458589

Luminaire Tested: **GALN-SA1C-735-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6665 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

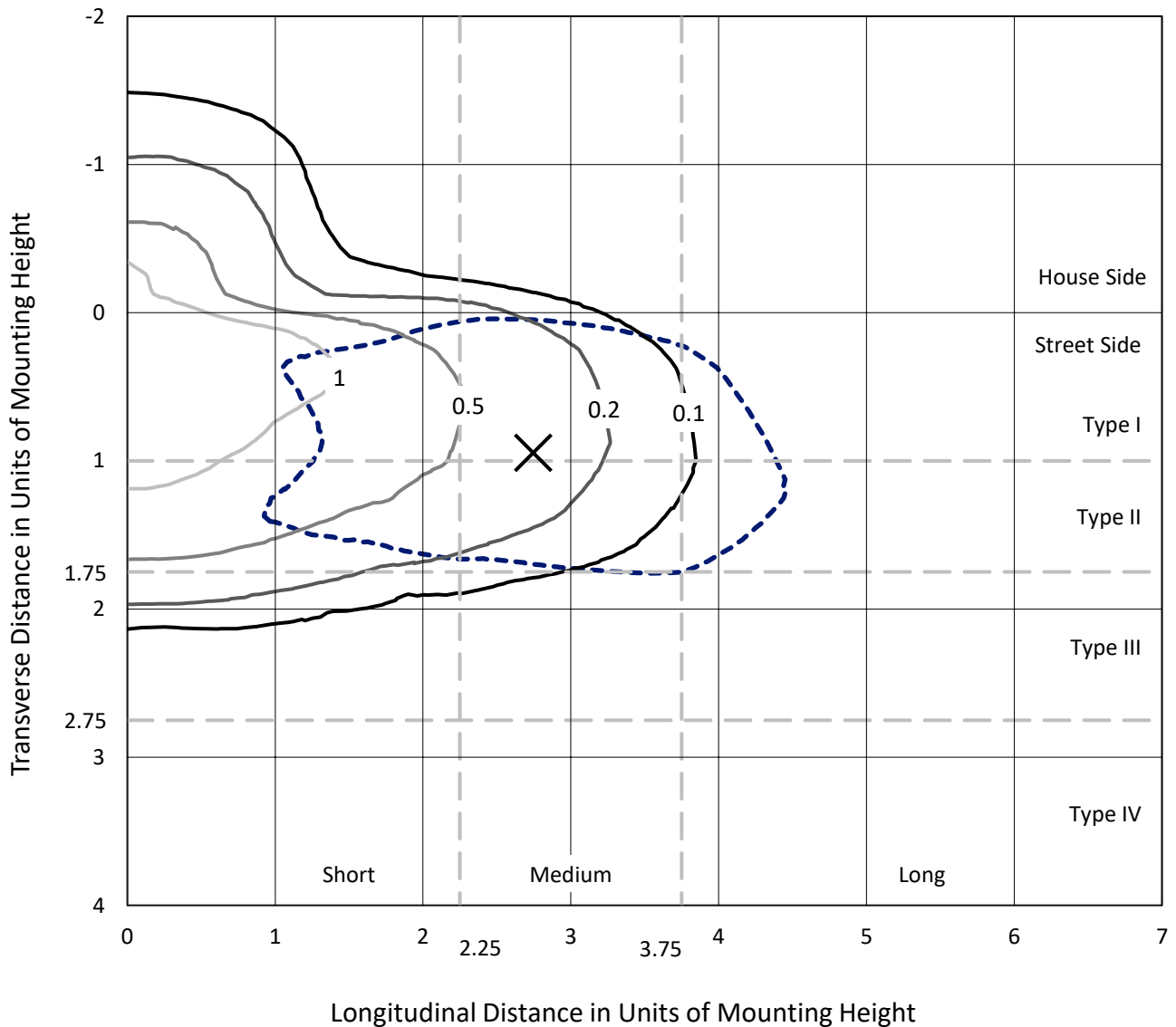
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

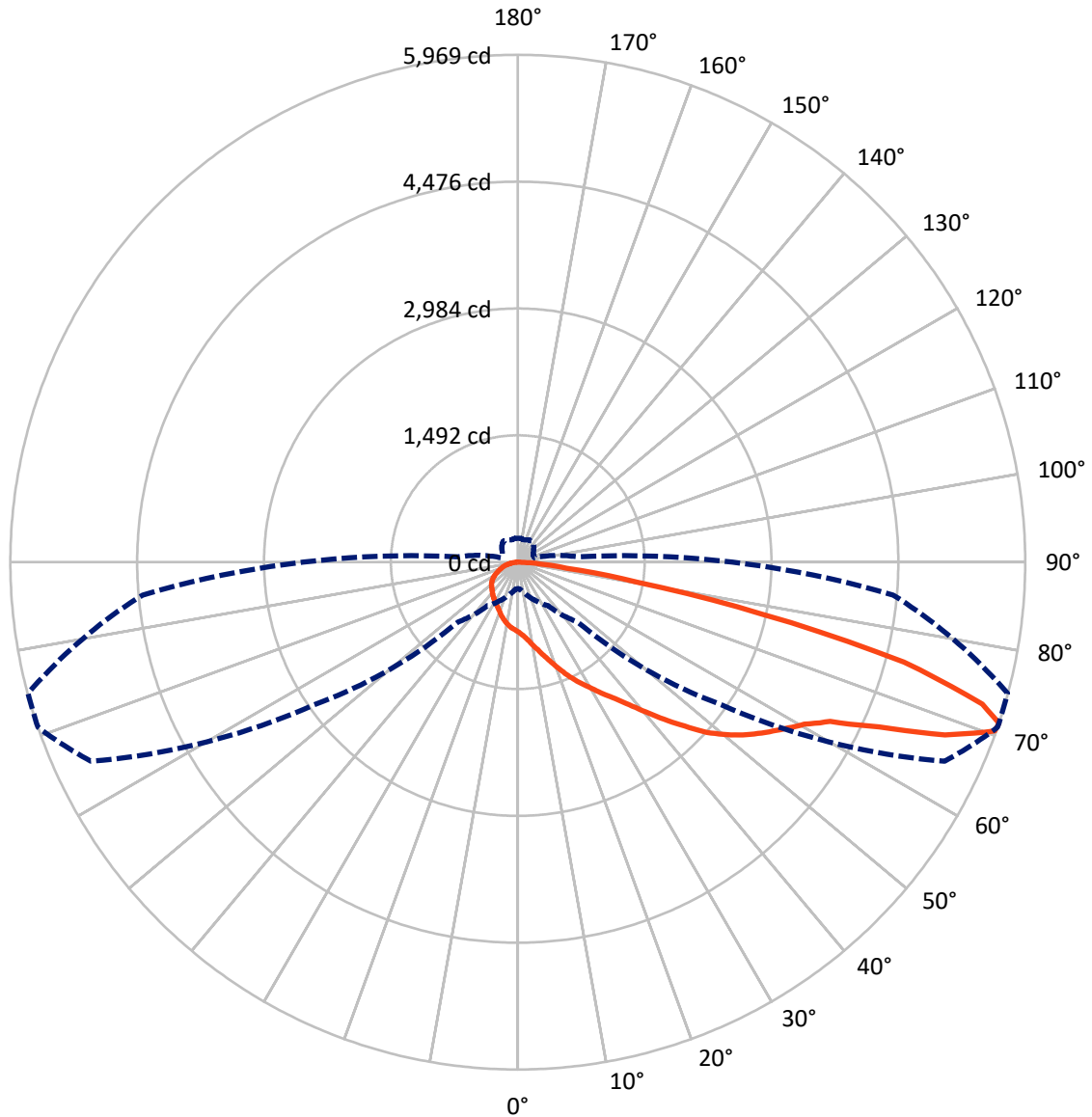
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



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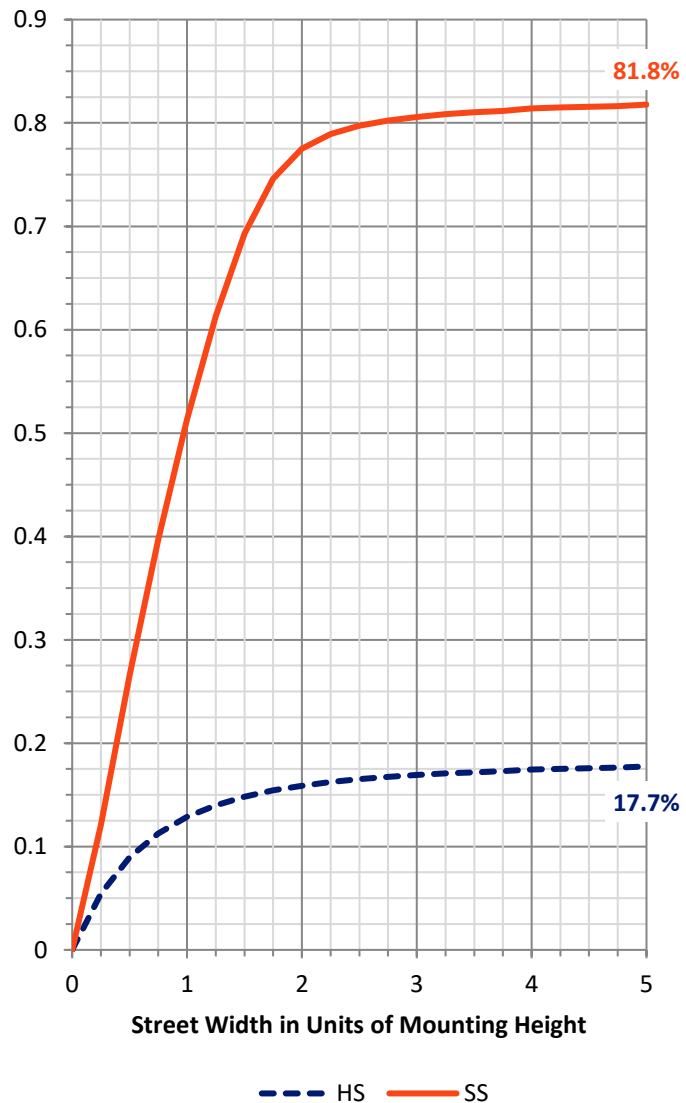
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1198.7	0.0	1198.7
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	5466.3	0.0	5466.3
	% Fixture	82.0	0.0	82.0
Total	Lumens	6665.0	0.0	6665.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	1.2
10°-20°	266.8	4.0
20°-30°	466.3	7.0
30°-40°	693.6	10.4
40°-50°	1021.9	15.3
50°-60°	1430.7	21.5
60°-70°	1600.2	24.0
70°-80°	977.5	14.7
80°-90°	125.7	1.9
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°	6665.0	100.0
0°-180°	6665.0	100.0



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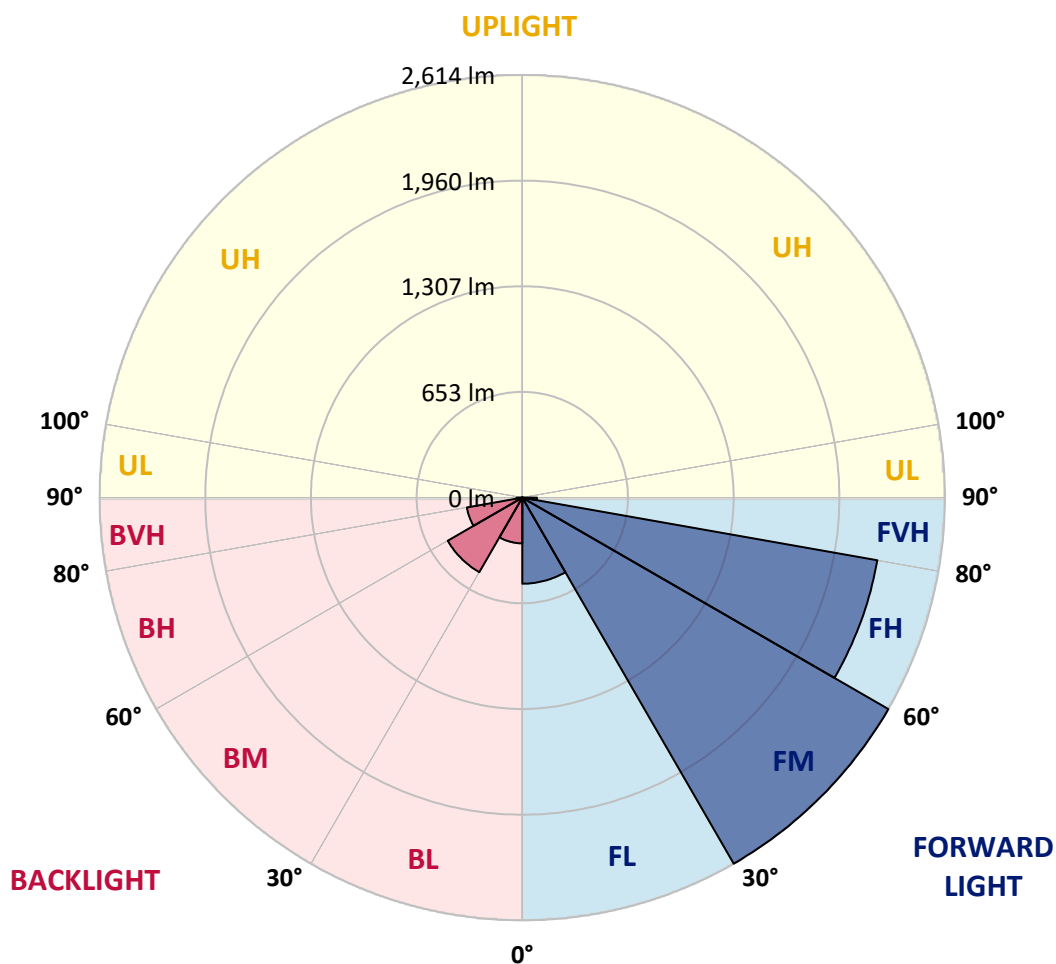
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	532.5	8.0			
FM (30°-60°)	2613.9	39.2			
FH (60°-80°)	2229.4	33.4			G2/5000
FVH (80°-90°)	90.5	1.4			G1/100
BL (0°-30°)	282.8	4.2	B1/500		
BM (30°-60°)	532.4	8.0	B1/1000		
BH (60°-80°)	348.3	5.2	B1/500		G1/500
BVH (80°-90°)	35.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0
2.5°	908.1	903.7	904.1	897.9	889.8	881.0	868.5	857.6	848.8	843.6	828.6
5°	1006.3	1001.9	996.4	982.8	977.0	955.4	927.9	903.0	883.9	873.3	843.3
7.5°	1085.8	1084.7	1083.2	1075.5	1060.5	1030.5	1007.0	963.8	935.6	915.4	864.2
10°	1134.9	1136.7	1137.8	1139.3	1133.0	1117.3	1085.0	1030.5	994.6	968.9	891.3
12.5°	1159.8	1161.6	1167.8	1181.4	1189.8	1188.0	1161.6	1108.1	1058.7	1025.0	920.2
15°	1175.2	1178.1	1189.1	1207.0	1235.2	1253.2	1240.4	1190.9	1136.7	1096.8	954.6
17.5°	1192.0	1195.3	1207.4	1233.0	1270.0	1308.9	1322.8	1280.3	1221.3	1173.7	993.1
20°	1201.5	1205.9	1223.1	1256.9	1300.1	1356.5	1402.6	1380.3	1315.8	1263.1	1037.4
22.5°	1216.9	1220.6	1235.2	1271.1	1322.8	1393.5	1482.5	1477.7	1421.0	1352.8	1086.1
25°	1258.7	1264.5	1271.9	1293.5	1343.3	1431.2	1548.8	1581.8	1522.8	1446.6	1130.8
27.5°	1337.4	1342.2	1341.8	1344.8	1373.0	1463.8	1606.3	1684.7	1623.9	1541.5	1174.1
30°	1427.2	1429.0	1430.5	1423.9	1430.1	1497.2	1659.1	1786.6	1725.7	1638.9	1211.8
32.5°	1536.4	1540.0	1527.6	1510.7	1505.6	1546.6	1702.7	1888.4	1846.3	1737.8	1249.2
35°	1665.3	1674.8	1649.5	1619.9	1599.0	1617.7	1761.3	1992.4	1969.7	1864.2	1298.6
37.5°	1812.6	1824.3	1800.8	1742.6	1712.9	1718.1	1837.8	2121.0	2125.8	2008.2	1372.2
40°	1933.1	1948.5	1949.2	1866.8	1821.7	1827.6	1934.9	2259.5	2314.1	2186.2	1459.1
42.5°	2012.6	2027.6	2043.3	1995.0	1947.7	1981.1	2048.1	2409.7	2525.8	2402.3	1580.3
45°	2099.8	2113.3	2122.1	2100.1	2073.7	2160.2	2184.7	2569.4	2751.4	2643.7	1712.9
47.5°	2200.9	2215.9	2224.3	2203.4	2193.5	2317.4	2332.0	2718.5	2992.5	2878.2	1859.5
50°	2335.7	2347.0	2342.6	2329.4	2327.2	2437.9	2473.4	2858.0	3191.4	3130.6	2011.5
52.5°	2503.4	2517.0	2521.8	2503.1	2494.7	2524.0	2587.3	2985.2	3372.4	3347.5	2173.8
55°	2604.9	2626.5	2699.1	2728.4	2748.5	2635.3	2710.1	3125.5	3534.6	3576.0	2348.1
57.5°	2474.9	2502.7	2665.0	2811.5	3000.9	2913.7	2884.1	3272.0	3696.9	3797.7	2556.9
60°	2157.6	2163.9	2373.0	2643.0	3024.0	3271.6	3247.1	3505.0	3872.8	4021.1	2832.0
62.5°	1496.8	1510.0	1757.2	2188.0	2739.0	3400.6	3864.7	3907.2	4124.8	4355.6	3235.4
65°	771.8	754.6	979.9	1375.2	2065.0	3094.3	4365.1	4646.8	4671.3	4878.7	3803.2
67.5°	475.1	482.8	588.3	803.0	1221.0	2248.9	4312.7	5550.5	5421.2	5520.8	4330.3
70°	356.8	366.3	438.9	549.5	744.4	1285.8	3468.3	5769.6	5950.2	5924.5	4490.7
71°	310.3	320.2	395.6	500.0	625.3	992.4	2922.2	5540.3	5968.5	5964.1	4430.3
72.5°	264.5	270.7	329.7	423.5	527.1	695.6	2195.4	4968.8	5713.9	5860.1	4214.5
75°	207.7	212.5	238.8	323.1	415.0	427.1	1178.1	3725.1	4693.0	4971.4	3508.6
77.5°	169.2	172.5	186.1	239.9	320.2	302.6	618.0	2424.7	2940.1	3220.3	2066.8
80°	134.4	138.1	146.2	162.6	239.9	215.8	294.9	1228.6	1420.2	1417.3	825.0
82.5°	104.4	105.5	115.0	119.4	164.1	153.1	159.7	520.2	576.2	595.3	297.8
85°	65.9	69.2	101.8	91.6	98.2	89.7	78.8	206.6	254.6	250.9	119.1
87.5°	20.1	21.2	34.4	38.8	43.6	39.2	28.9	60.8	74.4	80.6	29.7
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°	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0
2.5°	822.8	818.7	804.4	792.7	781.7	769.6	759.4	756.5	753.9	752.8	752.4
5°	830.5	818.4	790.2	767.1	748.8	731.9	721.3	716.5	711.8	711.8	713.2
7.5°	841.4	819.5	775.9	741.4	718.4	702.6	694.9	694.2	695.3	696.4	696.7
10°	853.5	818.7	755.0	712.1	691.6	684.3	684.7	690.9	696.7	701.1	701.9
12.5°	865.3	814.3	730.4	684.7	671.5	672.9	683.2	697.1	708.5	714.7	715.1
15°	878.4	807.4	700.8	658.6	654.3	665.6	684.7	705.9	723.1	733.4	734.5
17.5°	889.4	795.7	669.6	633.4	638.9	659.7	686.1	713.6	734.5	747.3	749.5
20°	901.9	780.6	637.4	609.2	624.9	653.2	683.2	712.9	734.5	746.9	749.9
22.5°	911.8	759.4	606.6	589.4	612.5	645.1	673.3	697.1	714.7	721.3	725.7
25°	915.8	732.6	577.7	573.3	602.6	631.9	651.0	664.5	670.0	669.3	671.1
27.5°	913.6	701.9	552.8	560.5	590.1	611.4	620.9	619.8	609.9	600.8	605.2
30°	904.4	665.2	531.9	547.3	574.0	585.7	584.3	570.0	551.3	534.1	535.2
32.5°	888.0	625.7	512.5	532.3	551.3	556.4	546.6	527.9	501.1	478.8	475.5
35°	874.0	587.9	495.3	515.0	528.6	526.0	516.5	492.3	468.2	448.4	445.1
37.5°	871.8	555.7	478.8	495.6	503.3	499.7	487.9	467.4	458.6	443.6	441.8
40°	883.6	533.0	461.9	475.1	478.8	475.9	463.0	451.3	459.4	455.7	455.7
42.5°	915.4	520.9	446.9	454.6	457.5	459.7	450.6	440.7	450.6	433.7	428.2
45°	966.0	521.3	433.4	434.5	443.2	450.9	444.7	430.1	424.9	391.2	384.6
47.5°	1040.4	533.7	422.4	415.4	431.2	444.0	435.2	413.9	391.2	368.9	364.9
50°	1127.2	556.1	412.5	395.6	415.0	435.2	428.6	403.7	380.2	366.7	364.1
52.5°	1223.5	584.3	400.4	373.6	395.3	431.2	430.1	402.2	370.0	360.8	358.6
55°	1342.6	612.1	385.4	348.0	377.7	427.9	426.0	390.1	367.8	361.2	360.5
57.5°	1481.0	652.4	363.8	322.0	357.5	414.3	410.3	382.8	360.5	355.7	355.3
60°	1704.1	715.1	333.0	298.2	337.0	390.5	395.6	370.4	348.7	347.6	347.3
62.5°	1997.6	803.0	301.1	273.6	313.2	359.7	374.4	353.5	336.3	341.8	342.5
65°	2402.7	877.0	268.1	252.8	286.8	330.1	354.2	337.7	322.4	333.0	333.0
67.5°	2666.8	878.4	238.1	231.1	260.1	305.1	333.0	319.1	304.4	322.4	323.1
70°	2611.9	769.6	213.2	208.4	234.1	278.4	309.5	298.6	281.7	297.8	292.0
71°	2523.2	709.2	203.3	199.6	223.8	265.6	298.6	289.4	272.5	283.2	279.9
72.5°	2381.8	615.8	187.2	187.9	208.4	249.5	283.2	273.6	256.8	262.7	261.6
75°	2013.3	537.8	160.1	163.4	179.1	222.0	252.4	245.1	227.9	227.9	226.8
77.5°	1258.7	375.8	133.0	134.8	152.0	190.1	216.9	210.6	194.2	188.7	187.2
80°	469.6	194.2	104.0	106.2	116.9	149.8	179.5	173.6	156.8	150.6	144.7
82.5°	177.7	97.4	76.6	74.7	86.1	114.3	140.7	133.7	120.5	105.5	101.1
85°	67.0	48.4	46.9	45.4	50.6	67.8	87.2	85.7	71.8	61.2	60.1
87.5°	17.6	15.8	18.3	13.6	14.3	12.8	13.2	5.5	2.6	1.1	0.7
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)