

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: P450701

Luminaire Tested: **GALN-SA1C-730-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450701
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-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6516 lumens
Efficiency: N/A
Efficacy: 114.3 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

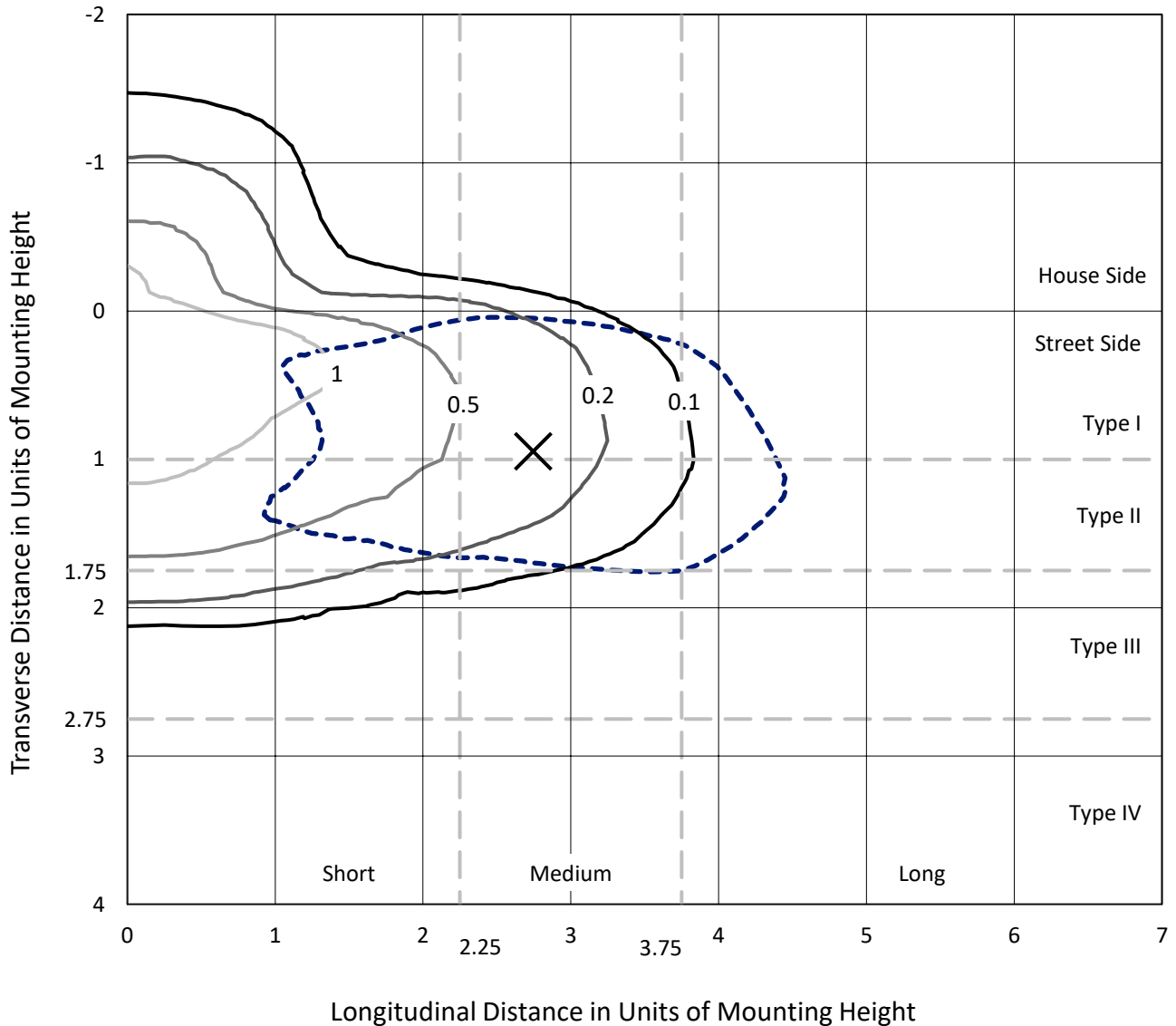
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

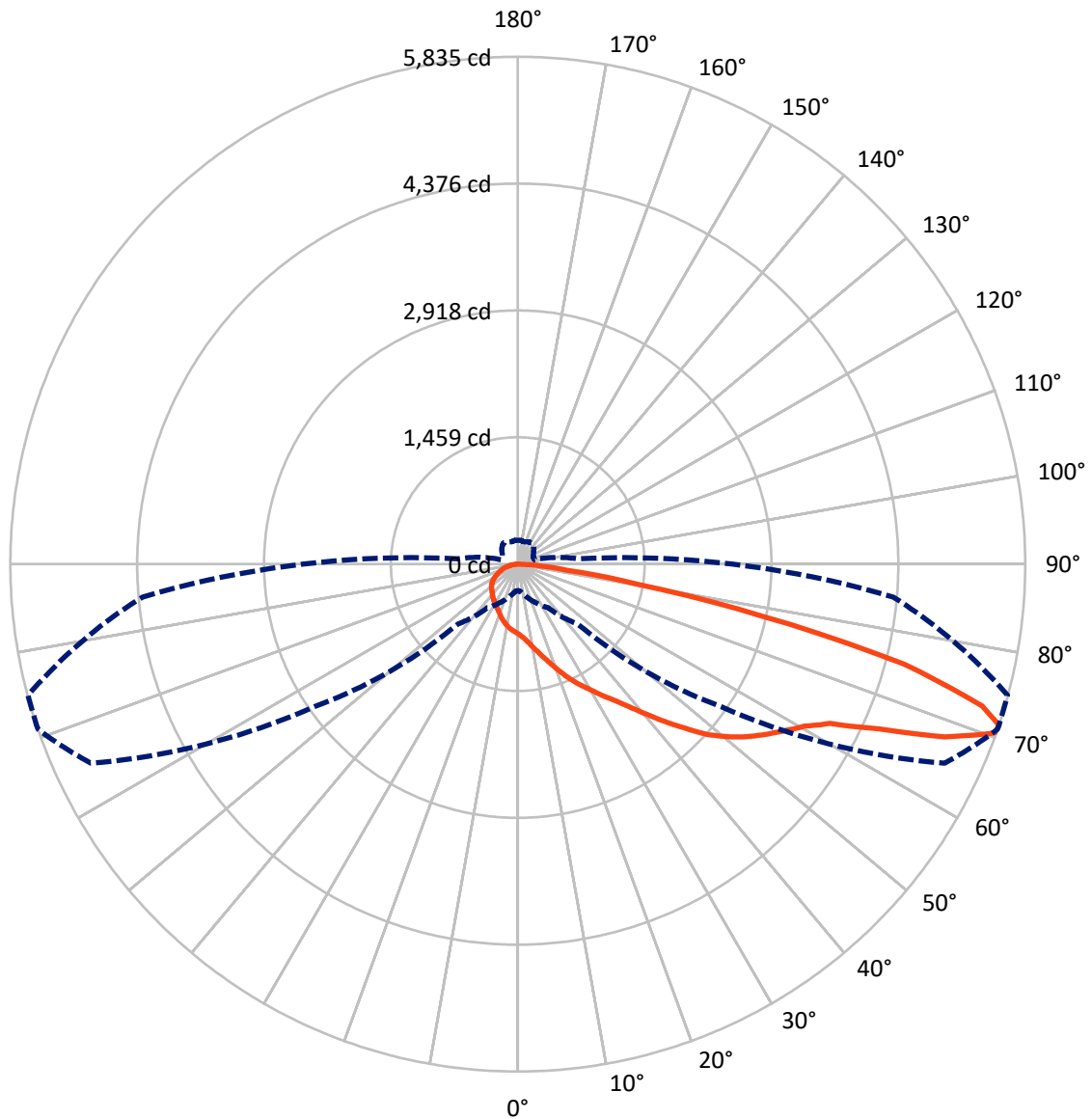
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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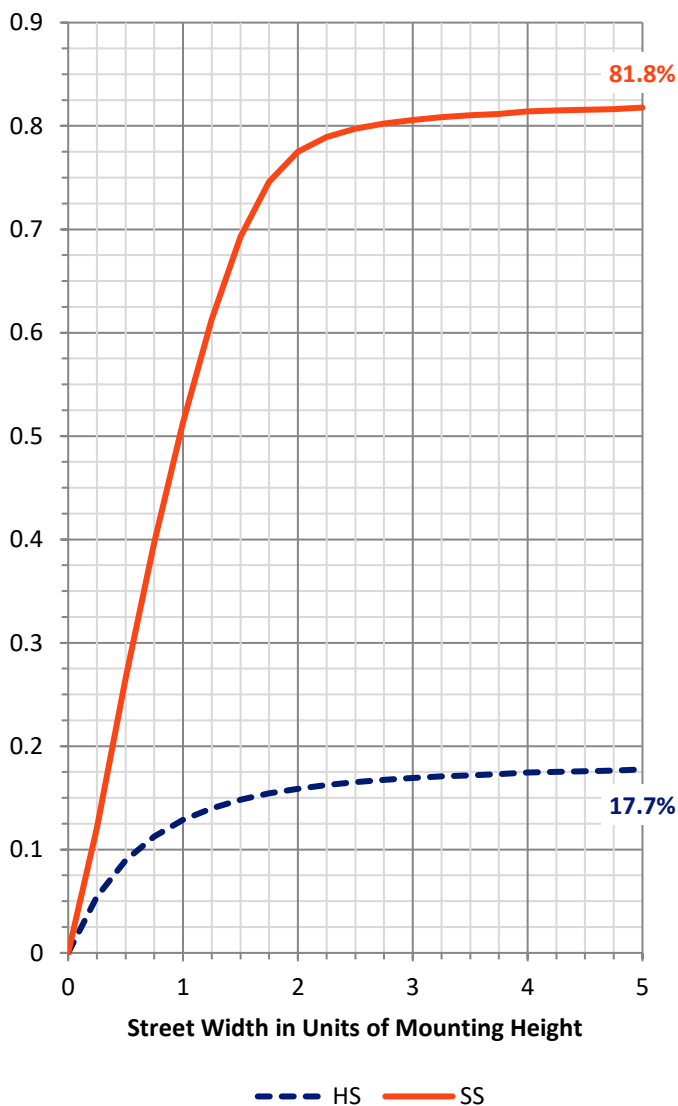
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1171.9	0.0	1171.9
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	5344.1	0.0	5344.1
	% Fixture	82.0	0.0	82.0
Total	Lumens	6516.0	0.0	6516.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	1.2
10°-20°	260.9	4.0
20°-30°	455.9	7.0
30°-40°	678.1	10.4
40°-50°	999.1	15.3
50°-60°	1398.7	21.5
60°-70°	1564.4	24.0
70°-80°	955.6	14.7
80°-90°	122.9	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°	6516.0	100.0
0°-180°	6516.0	100.0

Coefficient of Utilization



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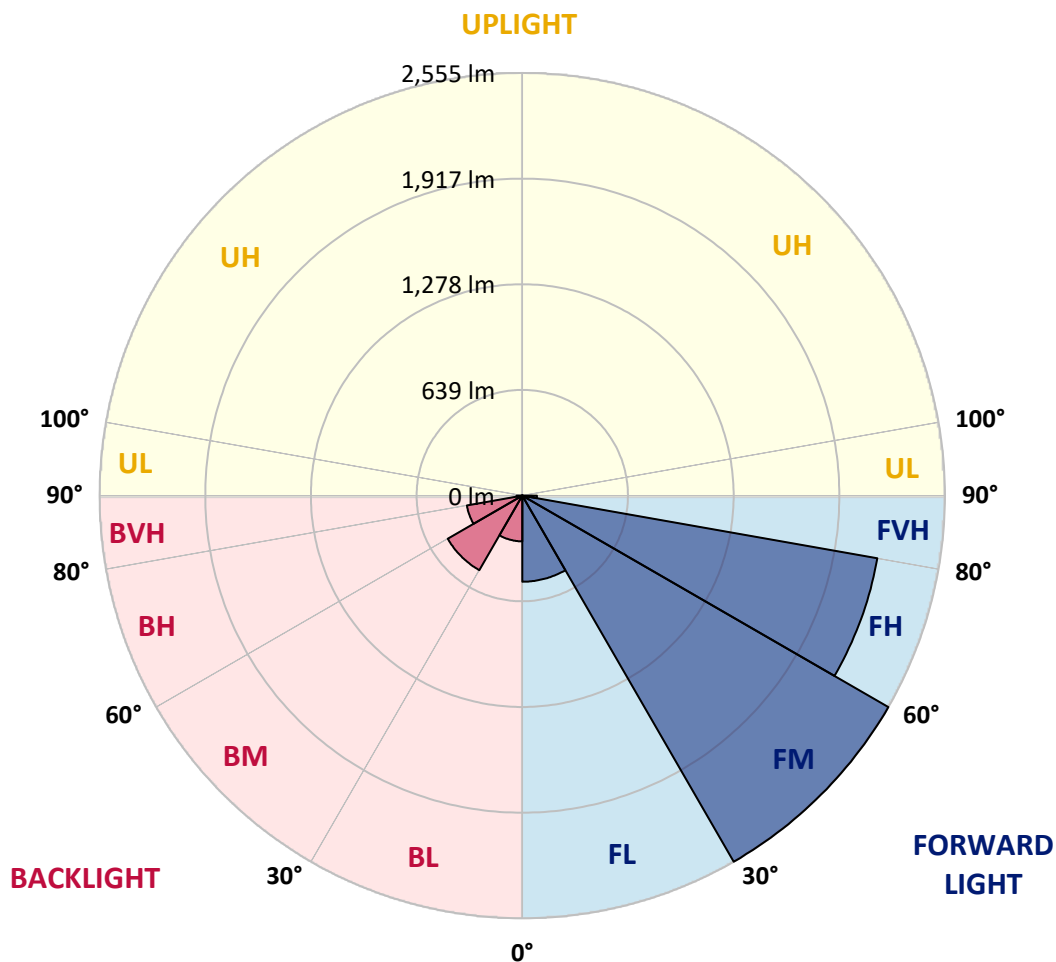
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	520.6	8.0			
FM (30°-60°)	2555.4	39.2			
FH (60°-80°)	2179.6	33.4			G2/5000
FVH (80°-90°)	88.5	1.4			G1/100
BL (0°-30°)	276.4	4.2	B1/500		
BM (30°-60°)	520.5	8.0	B1/1000		
BH (60°-80°)	340.5	5.2	B1/500		G1/500
BVH (80°-90°)	34.5	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°	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7
2.5°	887.8	883.5	883.9	877.8	869.9	861.3	849.1	838.4	829.8	824.8	810.1
5°	983.8	979.5	974.1	960.9	955.1	934.0	907.2	882.8	864.2	853.8	824.4
7.5°	1061.5	1060.4	1059.0	1051.5	1036.8	1007.4	984.5	942.2	914.7	895.0	844.8
10°	1109.5	1111.3	1112.4	1113.8	1107.7	1092.3	1060.8	1007.4	972.3	947.3	871.3
12.5°	1133.8	1135.6	1141.7	1155.0	1163.2	1161.4	1135.6	1083.4	1035.0	1002.1	899.6
15°	1148.9	1151.8	1162.5	1180.0	1207.6	1225.2	1212.6	1164.3	1111.3	1072.2	933.3
17.5°	1165.4	1168.6	1180.4	1205.5	1241.6	1279.6	1293.2	1251.7	1194.0	1147.5	970.9
20°	1174.7	1179.0	1195.8	1228.8	1271.0	1326.2	1371.3	1349.4	1286.4	1234.8	1014.2
22.5°	1189.7	1193.3	1207.6	1242.7	1293.2	1362.3	1449.4	1444.7	1389.2	1322.6	1061.9
25°	1230.5	1236.3	1243.4	1264.6	1313.3	1399.2	1514.2	1546.4	1488.8	1414.3	1105.6
27.5°	1307.5	1312.2	1311.8	1314.7	1342.3	1431.1	1570.4	1647.1	1587.6	1507.0	1147.8
30°	1395.3	1397.1	1398.5	1392.1	1398.2	1463.7	1622.0	1746.6	1687.2	1602.3	1184.7
32.5°	1502.0	1505.6	1493.4	1476.9	1471.9	1512.0	1664.6	1846.2	1805.0	1699.0	1221.2
35°	1628.1	1637.4	1612.7	1583.7	1563.2	1581.5	1721.9	1947.9	1925.7	1822.5	1269.6
37.5°	1772.0	1783.5	1760.6	1703.6	1674.6	1679.6	1796.8	2073.6	2078.2	1963.3	1341.6
40°	1889.9	1904.9	1905.6	1825.0	1781.0	1786.7	1891.7	2209.0	2262.3	2137.3	1426.4
42.5°	1967.6	1982.3	1997.7	1950.4	1904.2	1936.8	2002.3	2355.8	2469.3	2348.6	1545.0
45°	2052.8	2066.1	2074.7	2053.2	2027.4	2111.9	2135.9	2511.9	2689.9	2584.6	1674.6
47.5°	2151.7	2166.3	2174.6	2154.2	2144.5	2265.5	2279.9	2657.7	2925.6	2813.8	1817.9
50°	2283.5	2294.6	2290.3	2277.4	2275.2	2383.4	2418.1	2794.2	3120.1	3060.6	1966.5
52.5°	2447.5	2460.7	2465.4	2447.1	2438.9	2467.5	2529.5	2918.4	3297.0	3272.6	2125.2
55°	2546.7	2567.8	2638.7	2667.4	2687.1	2576.4	2649.5	3055.6	3455.6	3496.1	2295.6
57.5°	2419.5	2446.8	2605.4	2748.7	2933.8	2848.6	2819.6	3198.8	3614.3	3712.8	2499.8
60°	2109.4	2115.5	2320.0	2583.9	2956.4	3198.5	3174.5	3426.6	3786.2	3931.2	2768.7
62.5°	1463.3	1476.2	1718.0	2139.1	2677.8	3324.5	3778.3	3819.8	4032.6	4258.2	3163.0
65°	754.6	737.8	958.0	1344.4	2018.8	3025.1	4267.5	4542.9	4566.9	4769.6	3718.1
67.5°	464.5	472.0	575.2	785.0	1193.7	2198.6	4216.3	5426.4	5300.0	5397.4	4233.5
70°	348.8	358.1	429.0	537.2	727.7	1257.0	3390.8	5640.6	5817.2	5792.1	4390.3
71°	303.3	313.0	386.8	488.9	611.3	970.2	2856.8	5416.4	5835.1	5830.8	4331.3
72.5°	258.6	264.7	322.3	414.0	515.4	680.1	2146.3	4857.7	5586.2	5729.0	4120.3
75°	203.1	207.7	233.5	315.9	405.8	417.6	1151.8	3641.9	4588.0	4860.2	3430.2
77.5°	165.5	168.7	181.9	234.6	313.0	295.8	604.2	2370.5	2874.4	3148.3	2020.6
80°	131.4	135.0	142.9	159.0	234.6	210.9	288.3	1201.2	1388.5	1385.6	806.5
82.5°	102.1	103.1	112.5	116.8	160.4	149.7	156.1	508.5	563.3	582.0	291.2
85°	64.5	67.7	99.6	89.5	96.0	87.7	77.0	202.0	248.9	245.3	116.4
87.5°	19.7	20.8	33.7	38.0	42.6	38.3	28.3	59.5	72.7	78.8	29.0
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°	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7
2.5°	804.4	800.4	786.5	775.0	764.3	752.4	742.4	739.5	737.0	736.0	735.6
5°	811.9	800.1	772.5	749.9	732.0	715.5	705.2	700.5	695.9	695.9	697.3
7.5°	822.6	801.1	758.5	724.9	702.3	686.9	679.4	678.7	679.7	680.8	681.2
10°	834.4	800.4	738.1	696.2	676.2	669.0	669.4	675.4	681.2	685.5	686.2
12.5°	845.9	796.1	714.1	669.4	656.5	657.9	667.9	681.5	692.6	698.7	699.1
15°	858.8	789.3	685.1	643.9	639.6	650.7	669.4	690.1	707.0	717.0	718.1
17.5°	869.5	777.9	654.7	619.2	624.6	645.0	670.8	697.6	718.1	730.6	732.7
20°	881.7	763.2	623.2	595.6	611.0	638.6	667.9	696.9	718.1	730.2	733.1
22.5°	891.4	742.4	593.1	576.2	598.8	630.7	658.2	681.5	698.7	705.2	709.5
25°	895.3	716.3	564.8	560.5	589.1	617.8	636.4	649.7	655.0	654.3	656.1
27.5°	893.2	686.2	540.4	547.9	577.0	597.7	607.0	606.0	596.3	587.3	591.6
30°	884.2	650.4	520.0	535.1	561.2	572.7	571.2	557.3	539.0	522.2	523.2
32.5°	868.1	611.7	501.0	520.4	539.0	544.0	534.3	516.1	489.9	468.1	464.9
35°	854.5	574.8	484.2	503.5	516.8	514.3	505.0	481.3	457.7	438.4	435.1
37.5°	852.4	543.3	468.1	484.6	492.1	488.5	477.0	457.0	448.4	433.7	431.9
40°	863.8	521.1	451.6	464.5	468.1	465.2	452.7	441.2	449.1	445.5	445.5
42.5°	895.0	509.3	436.9	444.4	447.3	449.5	440.5	430.8	440.5	424.0	418.7
45°	944.4	509.6	423.7	424.7	433.3	440.9	434.8	420.4	415.4	382.5	376.0
47.5°	1017.1	521.8	412.9	406.1	421.5	434.1	425.5	404.7	382.5	360.6	356.7
50°	1102.0	543.6	403.3	386.8	405.8	425.5	419.0	394.7	371.7	358.5	356.0
52.5°	1196.2	571.2	391.4	365.3	386.4	421.5	420.4	393.2	361.7	352.8	350.6
55°	1312.6	598.4	376.8	340.2	369.2	418.3	416.5	381.4	359.6	353.1	352.4
57.5°	1447.9	637.8	355.6	314.8	349.5	405.0	401.1	374.2	352.4	347.7	347.4
60°	1666.0	699.1	325.5	291.5	329.5	381.8	386.8	362.1	340.9	339.9	339.5
62.5°	1952.9	785.0	294.4	267.5	306.2	351.7	366.0	345.6	328.8	334.1	334.9
65°	2349.0	857.4	262.2	247.1	280.4	322.7	346.3	330.2	315.2	325.5	325.5
67.5°	2607.2	858.8	232.8	226.0	254.3	298.3	325.5	311.9	297.6	315.2	315.9
70°	2553.5	752.4	208.4	203.8	228.8	272.2	302.6	291.9	275.4	291.2	285.4
71°	2466.8	693.3	198.8	195.2	218.8	259.6	291.9	282.9	266.5	276.8	273.6
72.5°	2328.6	602.0	183.0	183.7	203.8	243.9	276.8	267.5	251.1	256.8	255.7
75°	1968.3	525.7	156.5	159.7	175.1	217.0	246.8	239.6	222.8	222.8	221.7
77.5°	1230.5	367.4	130.0	131.8	148.6	185.9	212.0	205.9	189.8	184.4	183.0
80°	459.1	189.8	101.7	103.9	114.2	146.5	175.5	169.8	153.3	147.2	141.5
82.5°	173.7	95.3	74.8	73.1	84.2	111.7	137.5	130.7	117.8	103.1	98.8
85°	65.5	47.3	45.8	44.4	49.4	66.3	85.2	83.8	70.2	59.8	58.7
87.5°	17.2	15.4	17.9	13.3	14.0	12.5	12.9	5.4	2.5	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)