

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: P526084

Luminaire Tested: **GALN-SA1A-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3703 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

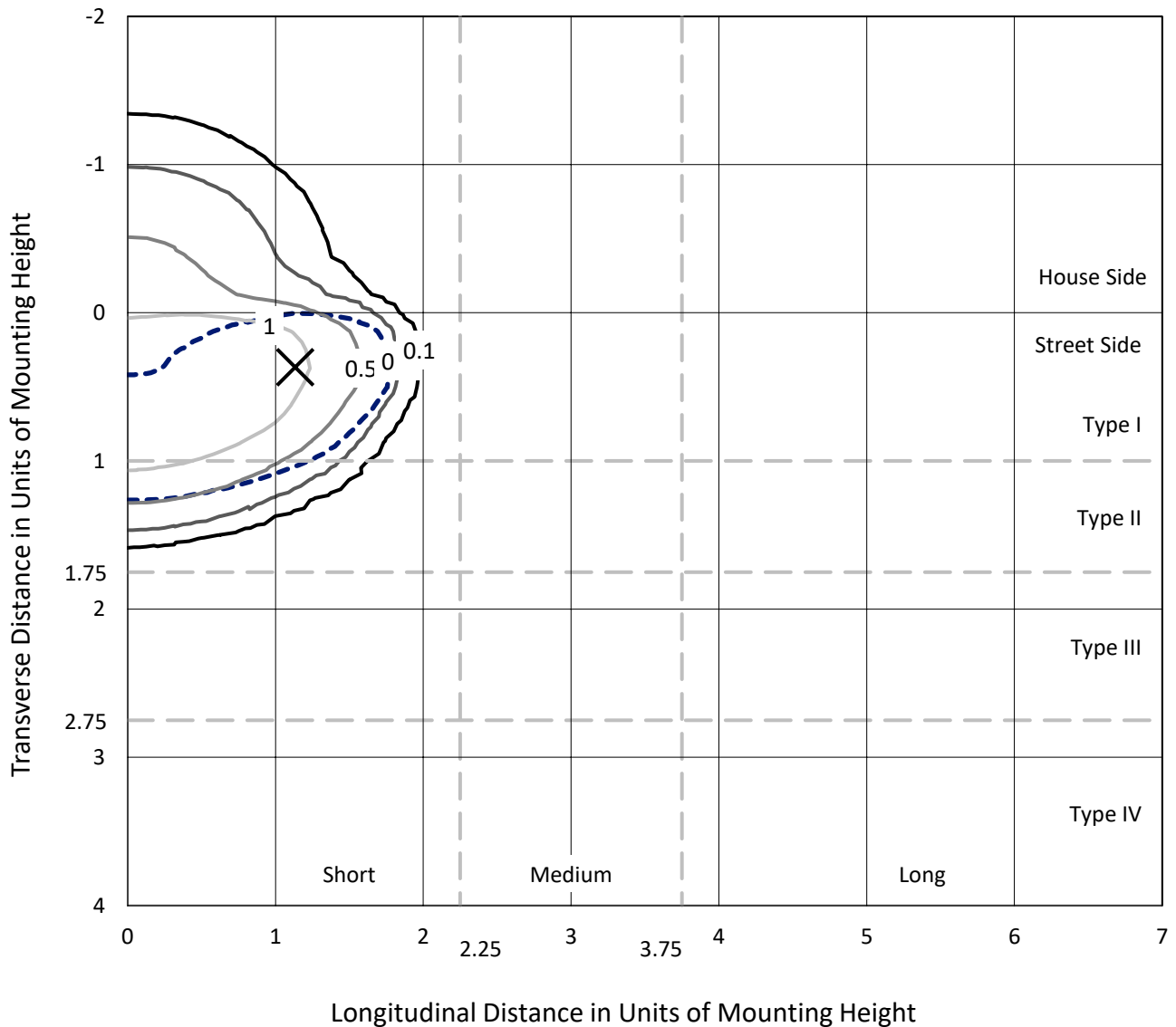
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

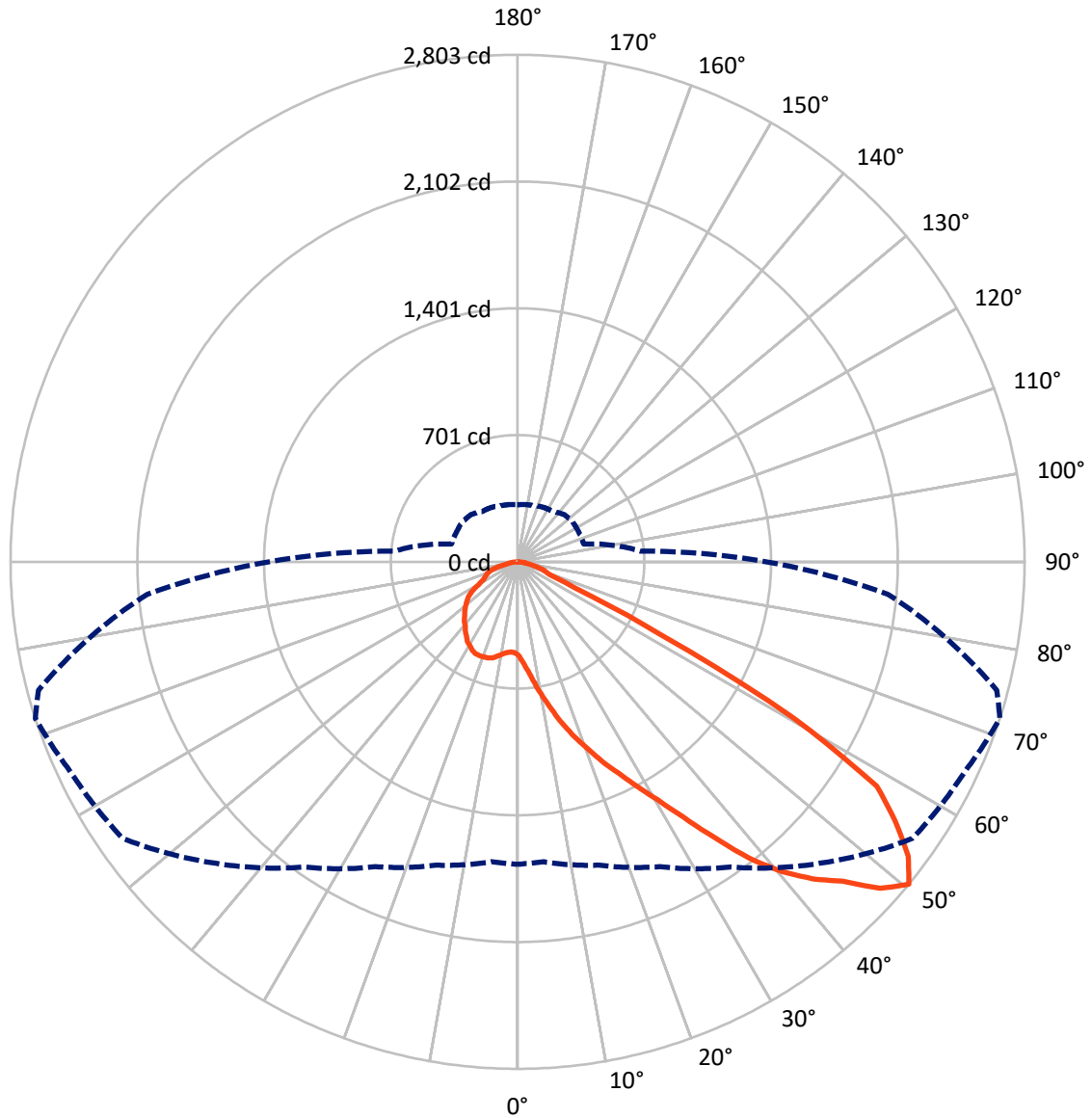
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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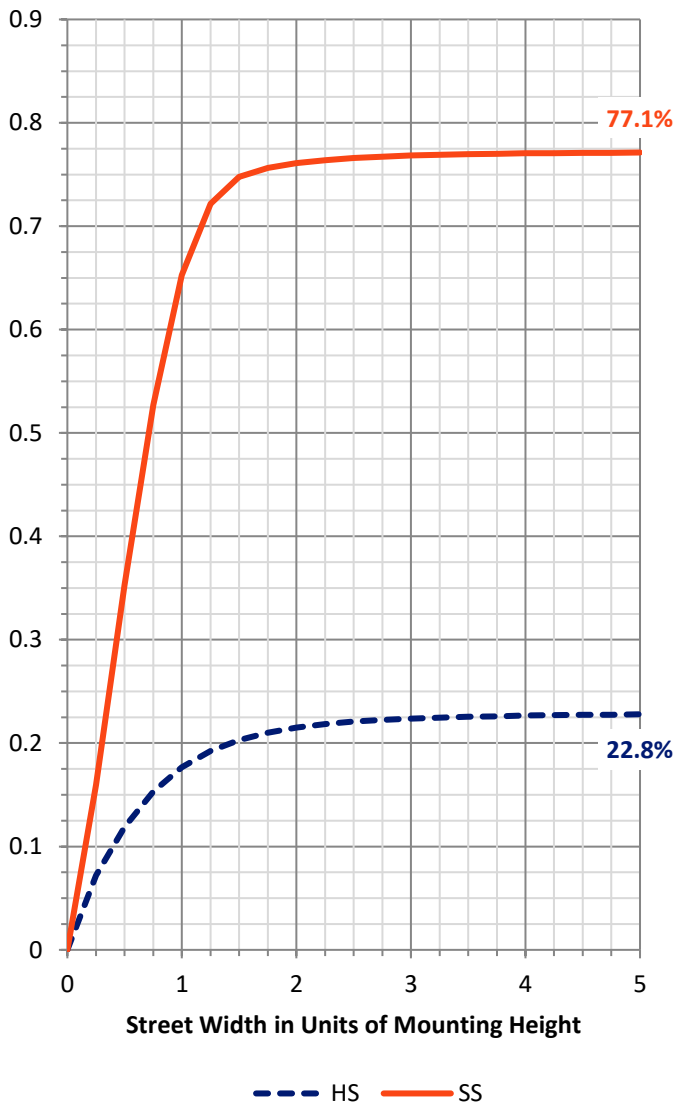
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	848.4	0.0	848.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	2854.6	0.0	2854.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	3703.0	0.0	3703.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	1.6
10°-20°	226.7	6.1
20°-30°	439.5	11.9
30°-40°	728.1	19.7
40°-50°	1018.8	27.5
50°-60°	859.5	23.2
60°-70°	262.0	7.1
70°-80°	91.9	2.5
80°-90°	16.0	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°	3703.0	100.0
0°-180°	3703.0	100.0



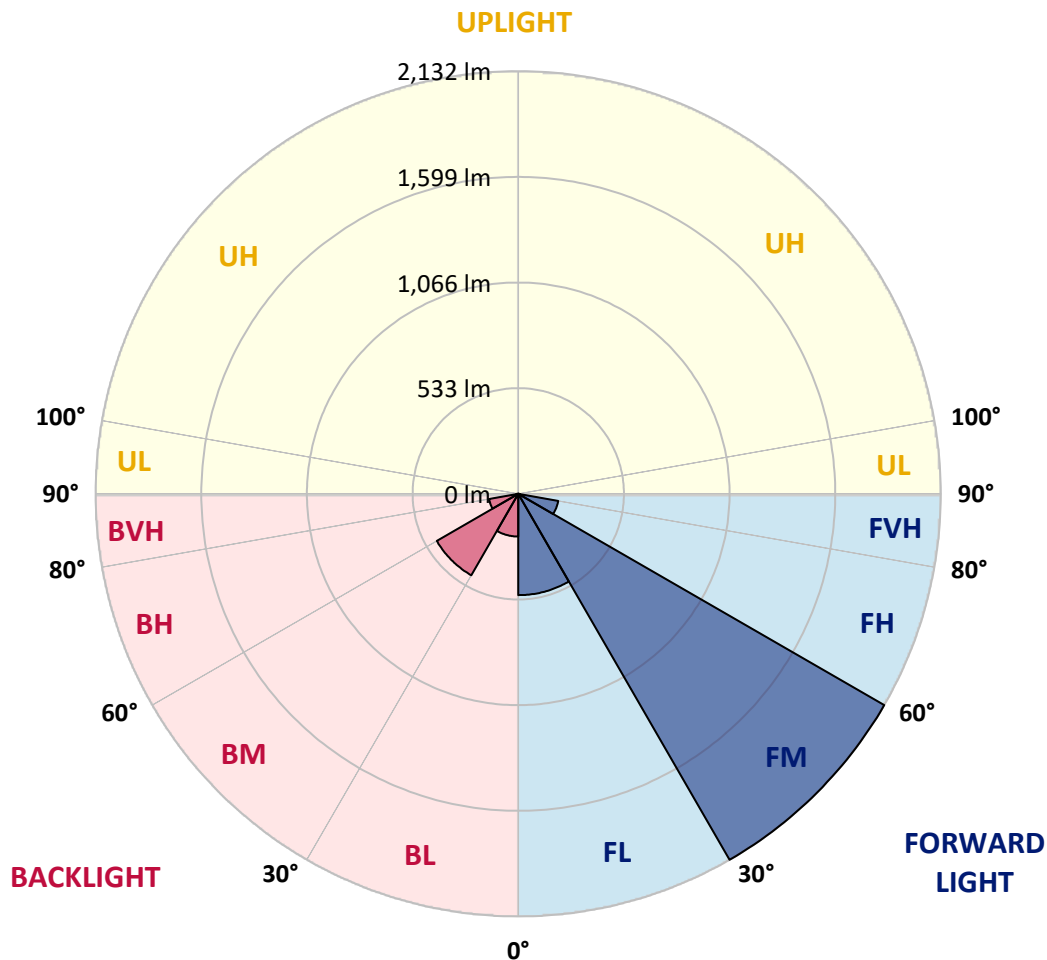
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	511.1	13.8			
FM (30°-60°)	2131.9	57.6			
FH (60°-80°)	204.4	5.5			G0/660
FVH (80°-90°)	7.2	0.2			G0/10
BL (0°-30°)	215.7	5.8	B1/500		
BM (30°-60°)	474.4	12.8	B1/1000		
BH (60°-80°)	149.5	4.0	B1/500		G1/500
BVH (80°-90°)	8.8	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5
2.5°	663.0	658.9	646.5	642.4	627.8	601.2	592.0	565.0	553.5	543.0	530.6
5°	838.5	819.3	817.9	794.5	760.6	740.9	682.3	642.9	606.7	588.3	554.4
7.5°	950.3	950.8	950.8	931.5	904.5	854.6	801.9	730.8	676.3	649.3	591.6
10°	1056.6	1047.5	1042.4	1040.6	1022.3	973.7	917.3	829.4	754.7	723.1	619.5
12.5°	1131.8	1124.0	1135.5	1129.5	1116.2	1084.6	1031.4	931.1	837.6	795.0	664.4
15°	1167.5	1173.0	1182.2	1198.7	1192.7	1180.8	1122.2	1035.6	927.0	878.9	704.3
17.5°	1222.5	1207.4	1218.4	1239.0	1255.5	1250.0	1216.6	1111.2	1015.4	956.3	757.9
20°	1261.0	1252.3	1257.8	1281.6	1294.0	1325.2	1307.7	1210.1	1100.2	1037.9	821.1
22.5°	1371.0	1358.1	1340.3	1343.9	1348.5	1370.5	1374.6	1318.7	1198.7	1132.7	881.1
25°	1506.6	1494.7	1473.6	1452.1	1438.8	1434.7	1448.9	1404.0	1293.1	1224.8	945.8
27.5°	1656.0	1635.8	1622.5	1578.1	1542.3	1536.8	1530.0	1505.7	1404.9	1331.1	1018.6
30°	1801.2	1785.2	1767.3	1696.3	1659.2	1653.2	1619.3	1626.2	1526.3	1444.3	1101.1
32.5°	1911.2	1912.6	1871.8	1818.2	1783.4	1751.7	1739.4	1759.1	1682.1	1616.1	1193.2
35°	2000.1	2004.2	1965.3	1916.7	1879.1	1901.1	1895.6	1904.8	1868.1	1787.5	1300.4
37.5°	2086.7	2066.1	2024.4	2001.0	1981.3	2017.5	2064.2	2072.0	2078.9	1984.1	1425.0
40°	2100.9	2102.7	2078.5	2094.9	2070.2	2124.7	2233.3	2223.2	2251.2	2168.3	1560.2
42.5°	2080.7	2084.9	2094.5	2117.9	2177.4	2243.0	2404.2	2363.0	2396.9	2323.1	1691.7
45°	2047.8	2030.8	2042.7	2131.6	2234.7	2380.4	2560.5	2528.4	2517.4	2455.6	1848.4
47.5°	1890.1	1907.5	1944.7	2054.2	2209.0	2404.2	2671.4	2664.0	2697.0	2653.5	1990.9
50°	1671.6	1664.7	1736.2	1859.4	2059.2	2357.5	2665.4	2731.9	2802.9	2742.4	2054.6
52.5°	1251.8	1288.5	1349.9	1502.9	1787.9	2102.7	2535.3	2646.2	2703.9	2691.1	2003.3
55°	791.3	802.3	839.4	1021.4	1278.0	1687.6	2173.3	2430.4	2533.5	2581.6	1956.1
57.5°	384.4	363.8	409.2	555.4	738.2	1135.0	1676.1	2116.9	2341.0	2428.1	1853.5
60°	200.7	208.5	226.4	278.6	381.7	589.3	1044.7	1410.8	1753.1	1886.9	1404.9
62.5°	166.3	169.1	181.0	207.1	253.8	339.1	533.4	687.8	894.0	1014.5	799.1
65°	141.1	142.5	155.3	172.7	202.5	238.7	274.5	287.3	347.8	356.9	284.1
67.5°	117.8	119.1	132.9	149.4	168.6	178.2	187.4	186.5	193.4	190.6	190.2
70°	90.7	92.1	106.3	123.7	133.3	127.8	156.3	162.7	165.4	167.7	171.4
72.5°	65.5	68.3	79.3	91.6	86.6	99.4	128.8	138.4	142.0	143.4	148.0
75°	47.7	48.6	51.3	47.7	55.0	69.2	90.7	102.6	107.2	108.6	115.5
77.5°	21.1	21.5	22.0	27.5	35.3	43.1	54.1	63.7	70.1	71.9	73.8
80°	11.0	11.5	14.2	18.8	25.2	31.6	39.4	44.9	49.0	49.5	51.3
82.5°	6.9	7.3	10.1	13.3	17.9	23.4	28.9	33.4	36.7	37.1	37.6
85°	3.2	4.1	6.0	8.2	11.9	15.1	15.6	13.3	14.2	14.7	13.7
87.5°	0.9	1.4	1.8	1.4	1.8	1.8	2.3	2.7	2.7	2.7	3.2
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°	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5
2.5°	523.7	519.6	503.6	497.6	482.0	484.8	476.5	476.1	474.3	473.8	473.3
5°	536.6	523.7	504.5	489.8	481.1	480.2	474.3	474.3	476.1	477.5	474.3
7.5°	557.6	543.0	510.4	496.7	488.9	487.5	483.4	480.2	484.3	483.0	479.3
10°	581.9	556.3	521.9	510.0	497.2	494.0	494.0	495.3	488.5	490.7	487.1
12.5°	609.0	574.6	536.6	522.8	507.7	505.9	505.0	494.9	498.5	496.7	487.5
15°	643.3	595.7	555.4	532.0	519.2	510.9	499.0	497.2	494.9	490.3	486.2
17.5°	680.4	618.6	564.1	534.7	515.5	509.5	500.4	490.7	483.9	484.8	481.6
20°	712.1	639.7	567.3	537.5	512.7	501.3	487.1	481.1	473.8	473.3	472.9
22.5°	749.6	668.1	571.8	530.2	504.5	492.6	483.0	472.4	467.4	461.0	464.2
25°	794.5	679.1	572.8	526.0	498.5	477.5	472.4	461.0	459.1	450.0	451.8
27.5°	827.1	685.0	565.4	513.2	484.8	468.8	459.6	451.3	448.1	441.3	439.4
30°	870.6	694.2	549.9	497.2	471.0	453.2	447.7	445.8	436.7	429.3	428.4
32.5°	920.1	700.1	539.8	480.7	456.8	443.1	445.8	437.1	425.7	419.3	417.4
35°	959.5	702.4	514.6	461.9	447.2	438.5	435.3	433.5	417.0	411.0	406.4
37.5°	1019.5	697.4	493.5	448.6	436.7	433.5	430.7	418.3	399.6	390.9	384.4
40°	1089.6	696.0	466.5	429.8	426.6	430.3	422.0	402.8	376.7	367.0	362.4
42.5°	1157.0	705.6	449.5	419.7	415.6	417.0	405.5	376.7	363.8	358.3	351.0
45°	1269.7	725.8	421.6	404.1	402.3	401.4	387.6	357.4	350.1	343.2	341.8
47.5°	1371.4	712.5	403.7	388.1	389.9	384.9	355.6	346.0	337.7	330.8	328.5
50°	1377.4	680.9	378.5	375.7	376.2	367.5	339.5	333.1	322.6	318.0	314.8
52.5°	1346.2	629.1	355.1	356.0	357.4	343.2	319.8	315.3	306.5	300.1	298.3
55°	1258.7	548.5	332.2	335.9	339.5	312.5	305.2	293.7	286.8	277.7	278.1
57.5°	1108.9	441.7	300.1	306.1	313.9	284.1	278.6	264.4	254.3	247.0	246.1
60°	743.2	314.3	252.0	254.3	271.7	259.8	259.3	245.1	231.4	225.0	221.3
62.5°	438.5	240.1	217.7	215.4	214.9	221.8	233.2	228.2	210.3	197.9	201.6
65°	229.6	207.6	202.5	194.7	190.2	188.3	197.0	199.3	187.4	174.1	173.2
67.5°	192.9	192.9	188.8	186.0	179.6	171.8	166.3	159.0	157.2	153.5	148.9
70°	175.5	180.1	178.7	172.3	166.8	158.1	143.9	132.0	120.5	116.4	119.1
72.5°	153.0	157.6	157.6	154.4	147.1	133.8	120.1	106.3	96.7	89.4	88.4
75°	117.8	120.1	125.6	121.9	112.3	104.0	89.8	75.6	66.4	59.6	58.2
77.5°	75.1	78.8	78.8	78.4	71.5	63.7	54.5	44.4	37.6	32.5	31.2
80°	49.9	52.2	54.1	52.2	47.7	41.7	34.8	28.0	22.9	18.8	17.9
82.5°	36.7	39.4	40.8	38.9	34.4	29.8	24.7	19.7	14.7	11.5	10.5
85°	14.2	14.7	16.5	19.7	19.2	18.8	15.1	11.0	8.2	6.0	5.5
87.5°	3.7	3.2	3.7	3.7	3.2	2.7	2.7	2.7	2.7	1.4	1.8
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)