

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: P450474

Luminaire Tested: **GALN-SA1B-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450474
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-SA1B-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4105 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

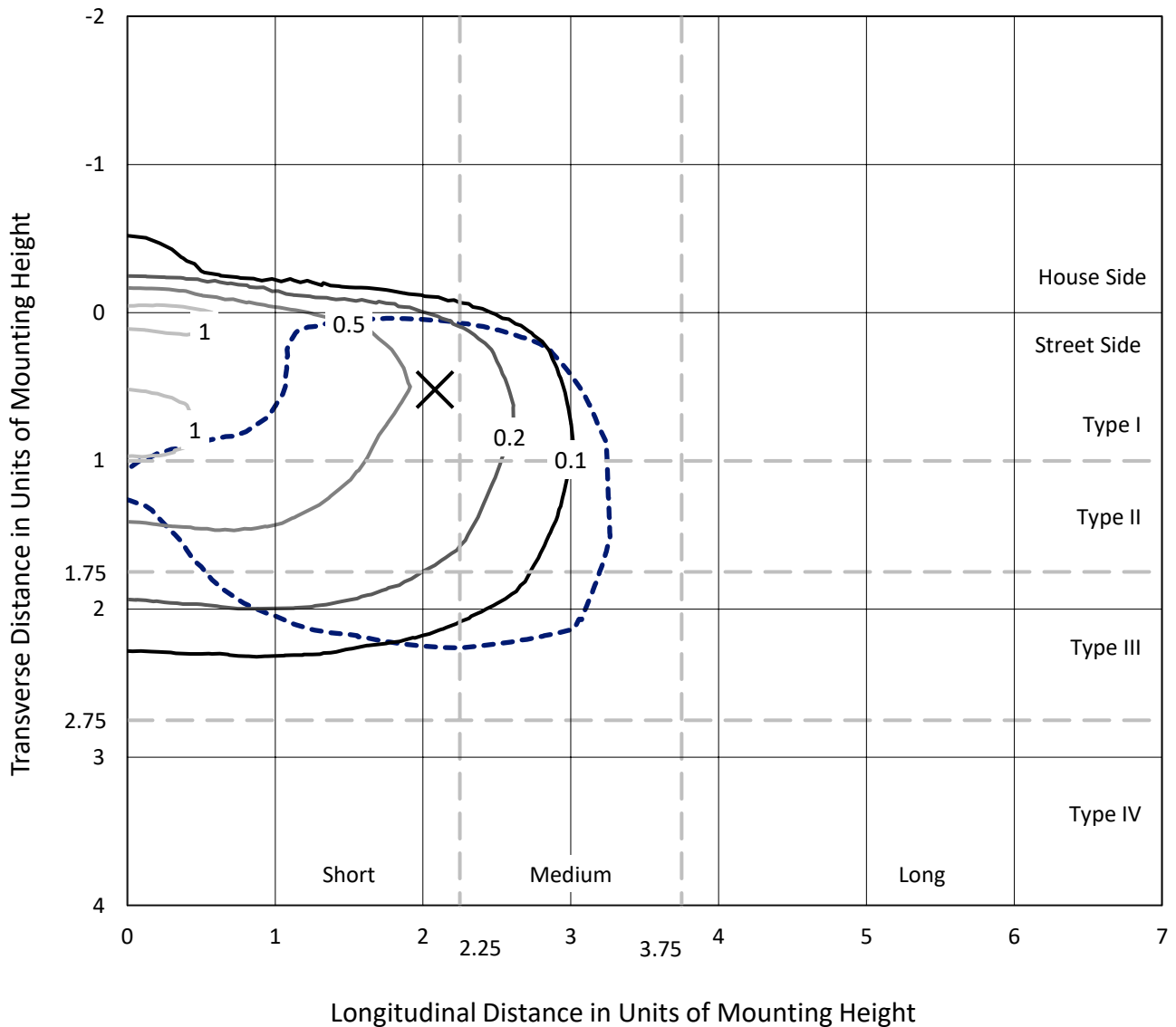
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

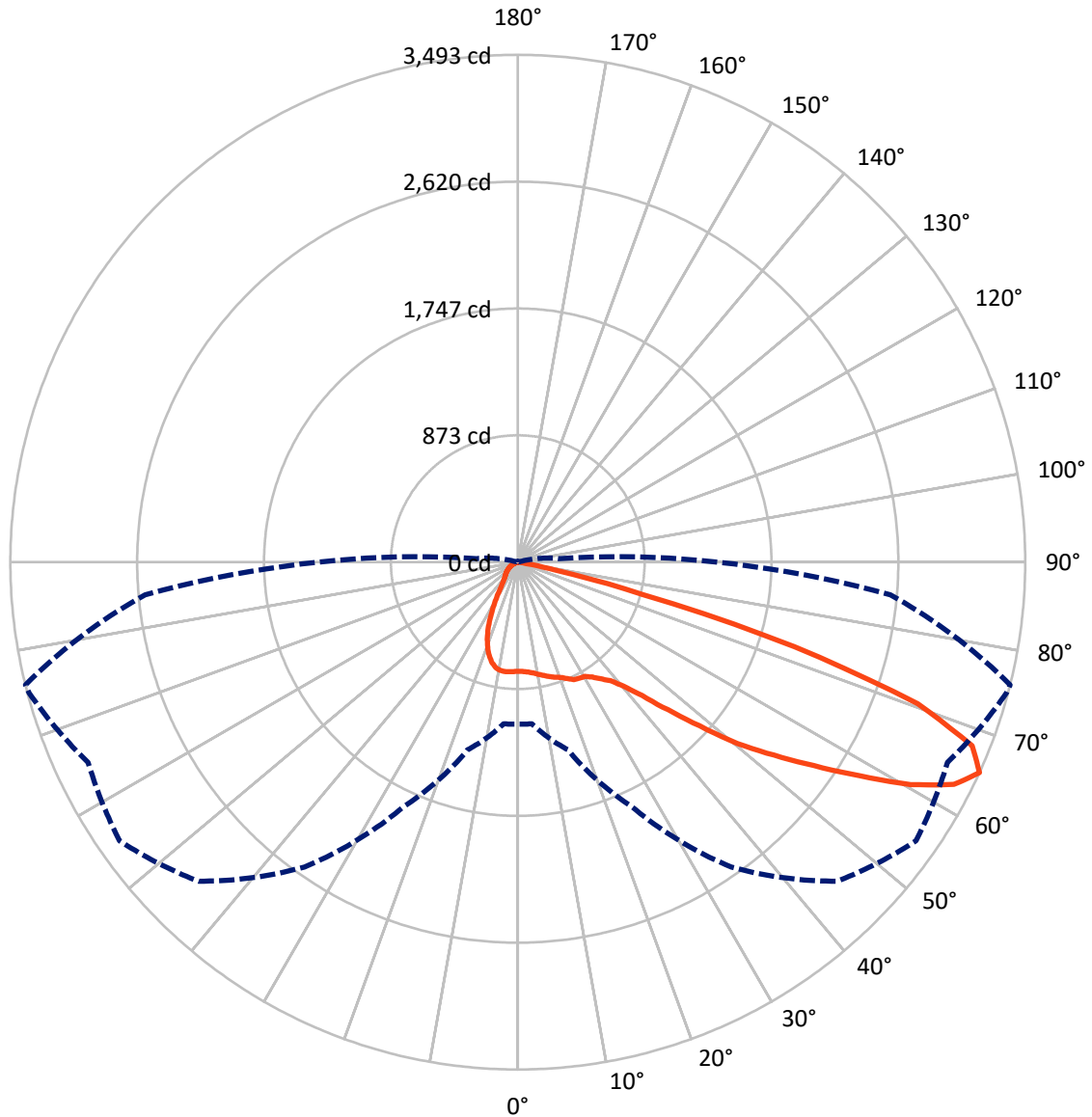
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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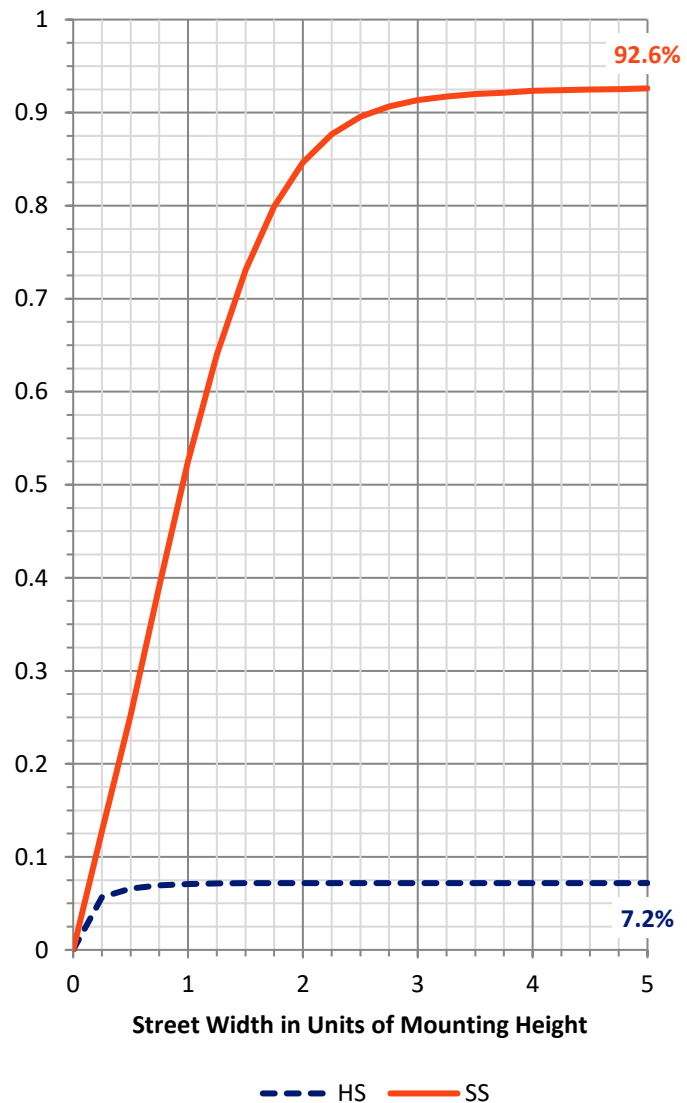
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	296.5	0.0	296.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	3808.5	0.0	3808.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	4105.0	0.0	4105.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.9	1.5
10°-20°	137.7	3.4
20°-30°	221.9	5.4
30°-40°	385.9	9.4
40°-50°	637.7	15.5
50°-60°	985.1	24.0
60°-70°	1203.0	29.3
70°-80°	456.6	11.1
80°-90°	15.2	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°	4105.0	100.0
0°-180°	4105.0	100.0



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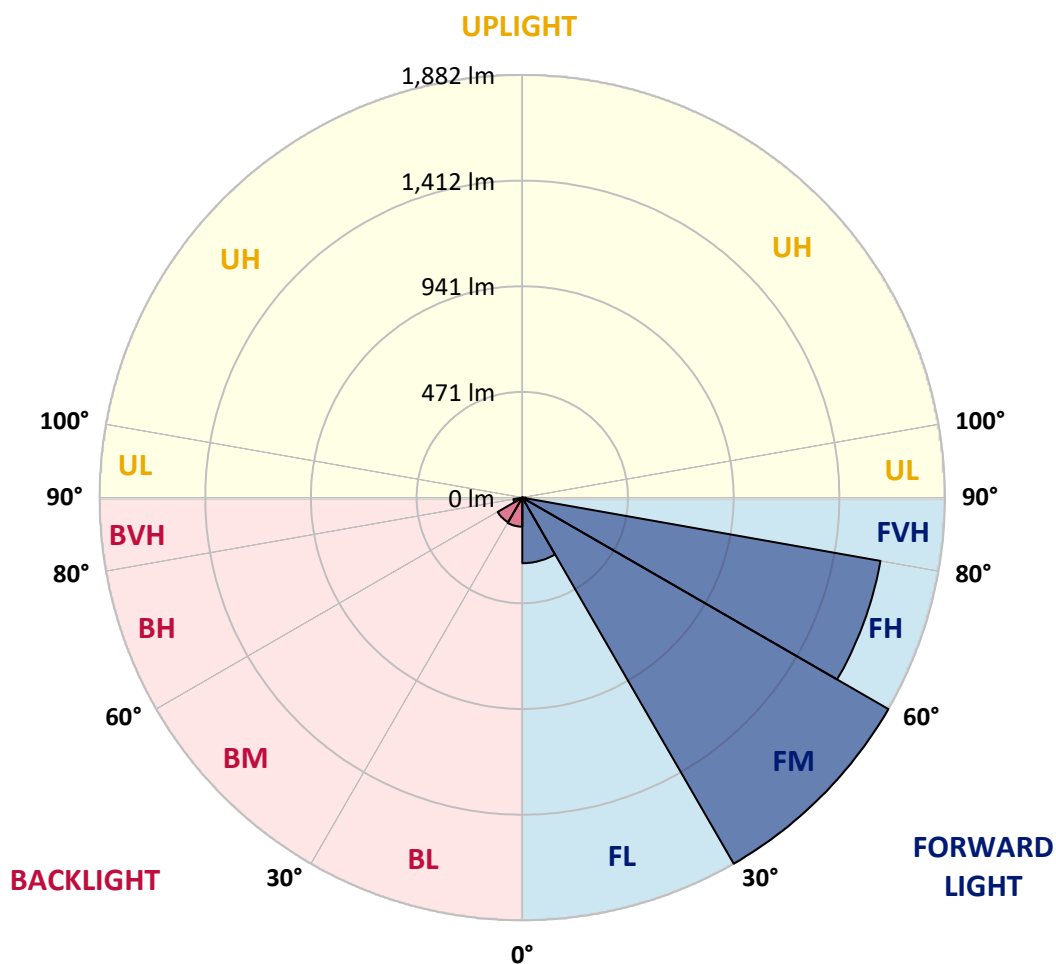
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	292.0	7.1			
FM (30°-60°)	1882.2	45.9			
FH (60°-80°)	1619.3	39.4			G1/1800
FVH (80°-90°)	15.0	0.4			G1/100
BL (0°-30°)	129.5	3.2	B1/500		
BM (30°-60°)	126.5	3.1	B0/220		
BH (60°-80°)	40.2	1.0	B0/110		G0/110
BVH (80°-90°)	0.2	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9
2.5°	717.6	717.9	719.6	724.0	730.6	736.2	740.8	748.3	753.5	754.1	755.9
5°	668.0	664.6	668.0	679.3	689.5	704.9	723.7	742.5	759.3	760.5	768.6
7.5°	612.4	615.3	620.8	632.4	651.5	675.0	702.2	735.9	767.7	770.6	786.6
10°	555.9	562.3	571.2	588.9	615.6	646.0	683.1	731.2	781.1	785.1	812.7
12.5°	503.7	506.6	517.6	541.4	574.4	617.3	668.6	728.6	795.9	800.8	840.5
15°	463.7	467.5	477.1	498.5	535.3	590.4	656.7	727.7	810.3	817.3	868.3
17.5°	456.2	458.5	462.6	477.1	509.2	568.9	646.0	727.5	824.3	832.7	894.1
20°	487.2	485.2	481.1	479.7	497.3	552.4	638.2	729.8	837.6	847.2	921.4
22.5°	564.9	567.5	543.7	515.6	509.8	549.8	637.0	740.8	858.8	870.1	951.8
25°	729.8	709.8	672.7	605.4	554.7	565.7	650.1	766.9	883.4	895.8	979.3
27.5°	912.1	906.0	848.3	737.6	643.1	599.4	673.3	786.9	891.5	904.3	995.0
30°	1091.2	1098.4	1032.4	910.0	771.5	661.7	695.0	794.4	898.7	912.1	1015.0
32.5°	1257.3	1266.0	1208.0	1086.8	922.8	769.5	732.4	823.7	929.2	942.8	1048.3
35°	1388.0	1389.1	1345.4	1248.9	1088.0	900.5	813.2	875.0	970.3	986.3	1083.7
37.5°	1508.0	1506.2	1454.9	1371.7	1225.7	1030.6	915.0	934.1	1017.3	1033.8	1134.7
40°	1596.9	1598.1	1581.6	1503.3	1354.1	1150.9	995.5	989.5	1096.1	1121.9	1208.9
42.5°	1656.3	1667.1	1675.2	1635.5	1515.5	1299.0	1119.3	1108.0	1232.9	1254.4	1313.8
45°	1704.5	1723.6	1764.2	1762.1	1670.5	1480.7	1289.1	1266.0	1426.8	1449.7	1447.4
47.5°	1739.5	1758.9	1826.2	1866.8	1816.3	1656.9	1502.7	1482.7	1658.4	1683.3	1594.9
50°	1757.5	1780.7	1866.5	1945.0	1930.2	1826.8	1746.2	1747.4	1938.1	1962.1	1765.9
52.5°	1715.5	1745.6	1887.9	2029.4	2058.0	1989.4	1974.3	2012.5	2187.0	2207.6	1920.4
55°	1581.3	1619.2	1858.6	2101.2	2206.1	2181.2	2233.4	2291.6	2459.2	2472.5	2078.9
57.5°	1496.4	1536.6	1772.3	2162.4	2384.1	2422.4	2505.0	2547.6	2740.0	2773.9	2260.9
60°	1424.8	1456.4	1701.3	2175.4	2564.9	2717.4	2797.7	2841.7	3086.6	3108.7	2461.2
62.5°	1305.7	1341.9	1581.3	2084.4	2656.0	2953.6	3120.0	3100.3	3354.7	3370.1	2584.1
65°	1114.1	1117.3	1337.8	1855.7	2562.0	3106.9	3346.3	3263.7	3482.8	3493.3	2574.5
67.5°	831.5	862.2	1029.2	1458.7	2164.1	2975.9	3419.6	3268.1	3402.0	3373.0	2370.2
70°	535.6	559.1	697.6	1011.5	1560.4	2483.5	3176.5	3044.0	2985.8	2921.4	1940.1
72.5°	247.2	277.4	414.4	577.9	925.4	1769.1	2578.6	2473.1	2149.0	1990.2	1233.2
75°	107.8	115.4	204.6	304.9	433.9	935.6	1700.1	1535.2	970.6	886.6	493.6
77.5°	65.8	70.7	107.2	163.5	170.4	356.5	915.8	669.8	300.0	264.6	133.9
80°	44.6	50.1	78.0	85.5	58.3	99.4	343.7	178.8	60.6	58.0	28.7
82.5°	21.7	27.5	57.7	47.8	25.2	31.9	100.0	38.3	17.7	16.5	10.1
85°	3.2	5.5	32.5	31.3	11.3	7.5	17.7	9.6	6.1	5.8	4.6
87.5°	0.0	0.0	11.0	4.9	1.2	1.2	2.0	2.0	2.3	2.0	2.3
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°	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9
2.5°	756.7	758.2	752.7	744.8	736.4	728.0	716.2	705.4	699.1	702.8	693.6
5°	770.4	769.2	754.7	730.9	699.3	661.4	623.7	591.5	581.1	565.4	563.7
7.5°	789.2	786.0	755.3	700.8	629.5	558.2	488.6	442.6	416.2	393.9	394.5
10°	815.6	806.3	748.6	647.8	530.4	422.9	334.2	273.3	246.9	238.5	231.9
12.5°	842.8	824.8	730.1	576.2	413.0	289.0	203.2	166.1	149.8	144.6	144.0
15°	867.2	838.8	697.6	490.1	300.3	184.6	138.5	126.4	124.3	124.6	124.3
17.5°	891.2	849.8	652.7	398.8	204.0	132.4	119.1	116.2	117.1	118.2	118.0
20°	911.2	852.1	595.3	304.3	144.3	116.2	111.9	111.3	112.2	113.0	113.0
22.5°	932.9	853.8	527.2	210.7	118.0	108.1	105.8	105.8	106.9	108.1	108.4
25°	949.2	844.3	445.8	151.3	104.0	100.3	99.1	99.4	100.6	101.1	100.9
27.5°	951.8	817.3	359.4	115.9	94.5	90.7	89.6	90.7	89.3	90.1	89.6
30°	954.1	783.1	271.9	97.7	85.8	80.0	78.3	76.5	75.4	73.9	73.6
32.5°	961.3	742.8	198.5	87.8	77.7	71.3	67.2	62.3	58.5	57.4	57.1
35°	964.5	694.4	145.8	80.0	70.4	63.5	56.2	49.3	43.8	41.7	43.2
37.5°	976.7	647.5	113.0	74.2	64.1	55.4	46.1	37.4	32.2	31.0	31.6
40°	1001.6	596.5	94.8	69.3	58.5	47.8	36.5	28.1	24.6	23.5	23.2
42.5°	1041.6	545.7	84.3	64.6	53.0	40.3	28.7	22.0	19.1	18.3	18.3
45°	1090.3	497.0	77.1	59.7	47.2	32.5	22.6	17.7	15.9	15.4	15.4
47.5°	1154.4	454.4	71.0	54.8	40.9	25.8	18.3	15.4	14.2	14.5	14.8
50°	1219.3	422.9	64.3	49.3	33.6	21.2	15.7	13.6	13.3	13.6	13.6
52.5°	1268.3	404.3	55.4	41.7	26.4	17.7	13.9	12.8	12.5	11.9	11.9
55°	1334.4	400.2	44.1	33.9	20.9	14.8	12.5	11.6	10.7	10.1	9.9
57.5°	1419.3	404.9	33.9	26.4	16.2	12.2	11.0	9.6	8.4	7.2	7.2
60°	1472.0	394.5	26.4	20.3	11.9	9.9	8.4	7.0	5.5	4.6	4.3
62.5°	1455.2	350.4	20.9	15.1	8.4	7.2	5.5	4.6	3.2	2.3	2.0
65°	1368.6	282.9	16.8	10.4	6.1	4.3	2.9	2.9	1.4	0.3	0.0
67.5°	1197.8	209.5	13.3	7.0	3.5	2.0	1.4	0.9	0.0	0.0	0.0
70°	975.0	151.3	10.4	4.3	2.0	1.4	0.6	0.3	0.0	0.0	0.0
72.5°	619.1	86.7	8.1	2.6	1.4	0.6	0.0	0.0	0.0	0.0	0.0
75°	239.4	33.9	5.5	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	67.8	15.9	3.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	17.7	7.0	1.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.4	2.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.9	1.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.3	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)