

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: P450469

Luminaire Tested: **GALN-SA1B-730-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450469
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-SA1B-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5273 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

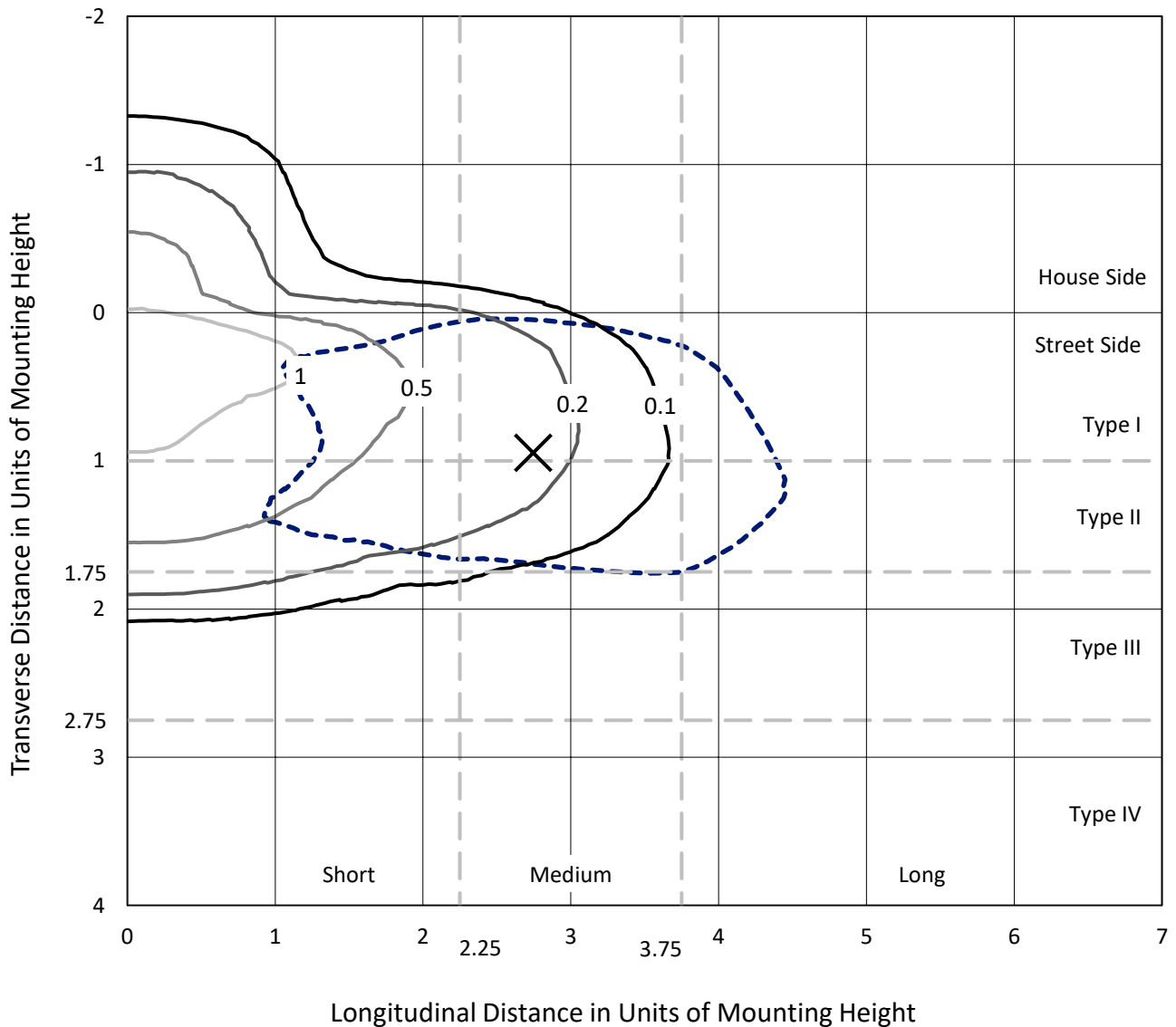
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

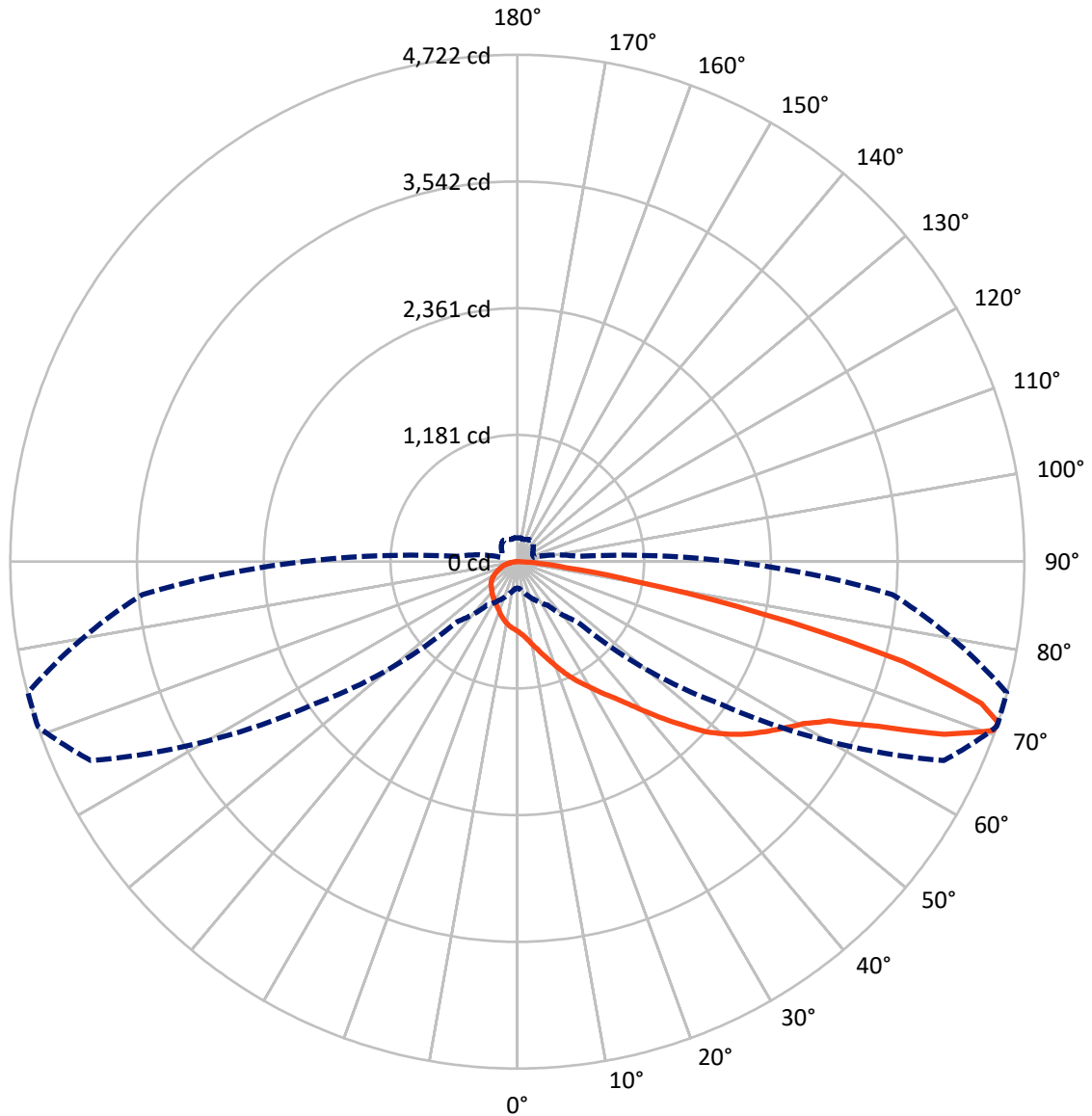
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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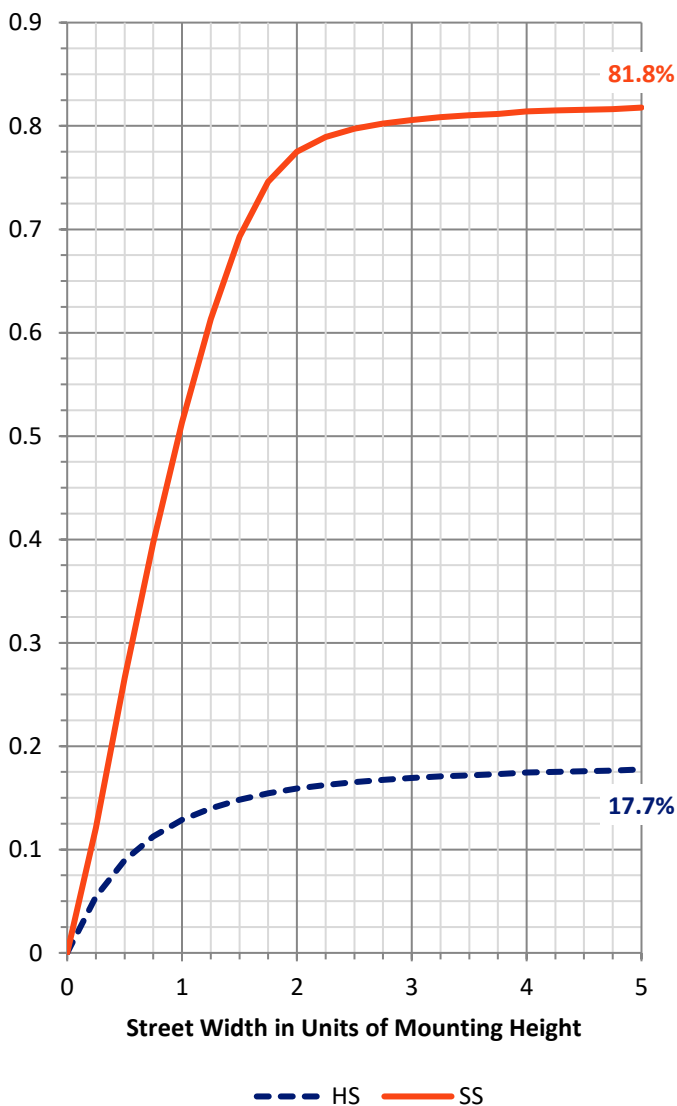
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	948.3	0.0	948.3
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	4324.7	0.0	4324.7
	% Fixture	82.0	0.0	82.0
Total	Lumens	5273.0	0.0	5273.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	1.2
10°-20°	211.1	4.0
20°-30°	368.9	7.0
30°-40°	548.7	10.4
40°-50°	808.5	15.3
50°-60°	1131.9	21.5
60°-70°	1266.0	24.0
70°-80°	773.3	14.7
80°-90°	99.5	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°	5273.0	100.0
0°-180°	5273.0	100.0



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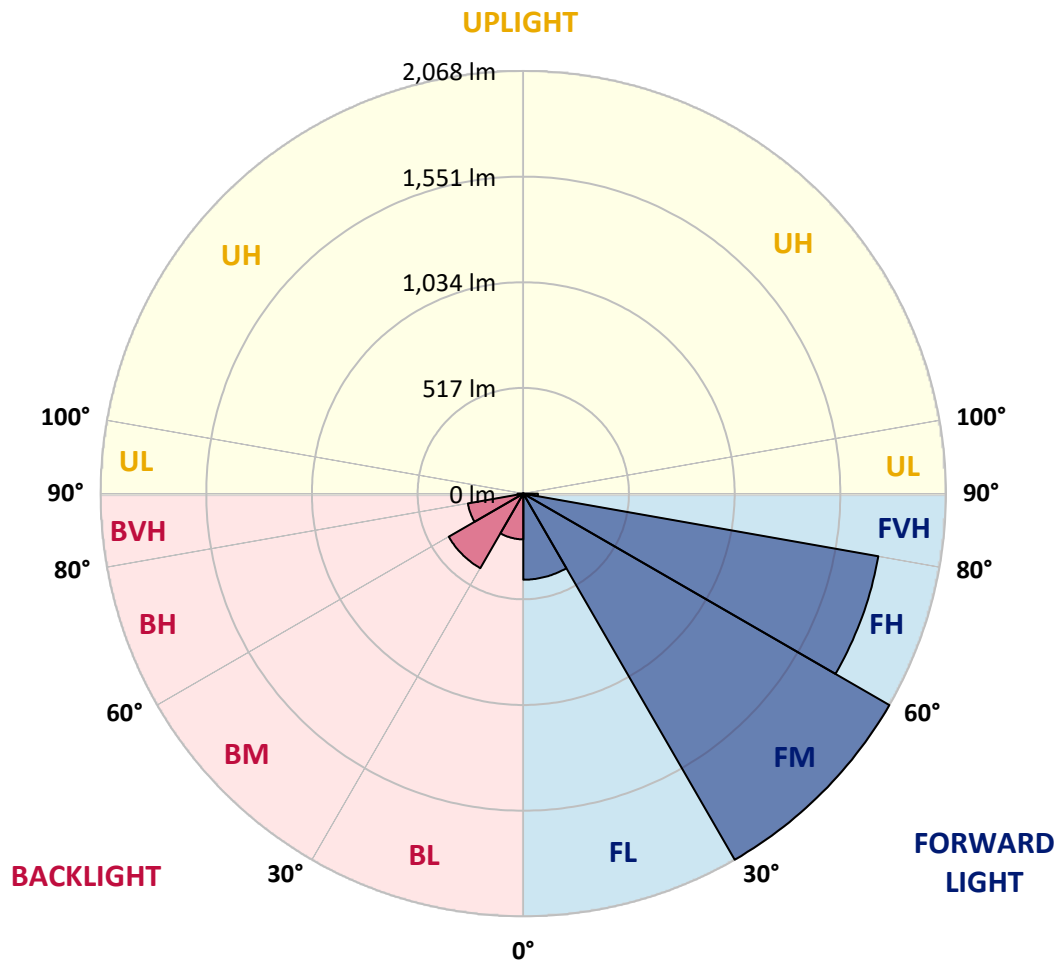
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	421.3	8.0			
FM (30°-60°)	2068.0	39.2			
FH (60°-80°)	1763.8	33.4			G1/1800
FVH (80°-90°)	71.6	1.4			G1/100
BL (0°-30°)	223.7	4.2	B1/500		
BM (30°-60°)	421.2	8.0	B1/1000		
BH (60°-80°)	275.5	5.2	B1/500		G1/500
BVH (80°-90°)	27.9	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-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2
2.5°	718.5	715.0	715.3	710.3	704.0	697.0	687.2	678.5	671.5	667.4	655.6
5°	796.1	792.6	788.3	777.6	772.9	755.8	734.1	714.4	699.3	690.9	667.2
7.5°	859.0	858.1	857.0	850.9	839.0	815.2	796.7	762.5	740.2	724.2	683.7
10°	897.8	899.3	900.2	901.3	896.4	883.9	858.4	815.2	786.8	766.6	705.1
12.5°	917.6	919.0	923.9	934.7	941.3	939.9	919.0	876.7	837.6	810.9	728.0
15°	929.7	932.0	940.7	954.9	977.3	991.5	981.3	942.2	899.3	867.7	755.3
17.5°	943.1	945.7	955.2	975.5	1004.8	1035.5	1046.5	1012.9	966.2	928.6	785.7
20°	950.6	954.1	967.7	994.4	1028.6	1073.2	1109.7	1092.0	1041.0	999.3	820.8
22.5°	962.8	965.7	977.3	1005.7	1046.5	1102.5	1172.9	1169.1	1124.2	1070.3	859.3
25°	995.8	1000.4	1006.2	1023.3	1062.8	1132.3	1225.3	1251.4	1204.8	1144.5	894.7
27.5°	1058.1	1061.9	1061.6	1063.9	1086.2	1158.1	1270.8	1332.9	1284.7	1219.5	928.9
30°	1129.1	1130.6	1131.7	1126.5	1131.4	1184.5	1312.6	1413.4	1365.3	1296.6	958.7
32.5°	1215.5	1218.4	1208.5	1195.2	1191.1	1223.6	1347.1	1494.0	1460.7	1374.9	988.3
35°	1317.5	1325.0	1305.0	1281.6	1265.0	1279.8	1393.4	1576.3	1558.3	1474.9	1027.4
37.5°	1434.0	1443.3	1424.7	1378.6	1355.2	1359.2	1454.0	1678.0	1681.8	1588.8	1085.6
40°	1529.4	1541.5	1542.1	1476.9	1441.2	1445.9	1530.8	1787.6	1830.8	1729.6	1154.3
42.5°	1592.2	1604.1	1616.6	1578.3	1540.9	1567.3	1620.4	1906.4	1998.3	1900.6	1250.3
45°	1661.2	1671.9	1678.9	1661.5	1640.6	1709.0	1728.5	2032.8	2176.8	2091.6	1355.2
47.5°	1741.2	1753.1	1759.8	1743.2	1735.4	1833.4	1845.0	2150.7	2367.5	2277.1	1471.1
50°	1847.9	1856.8	1853.4	1842.9	1841.2	1928.7	1956.8	2261.1	2524.9	2476.8	1591.4
52.5°	1980.6	1991.3	1995.1	1980.3	1973.6	1996.8	2047.0	2361.7	2668.0	2648.3	1719.8
55°	2060.9	2078.0	2135.4	2158.5	2174.5	2084.9	2144.1	2472.7	2796.4	2829.2	1857.7
57.5°	1958.0	1980.0	2108.4	2224.3	2374.2	2305.2	2281.7	2588.6	2924.8	3004.5	2022.9
60°	1707.0	1711.9	1877.4	2091.0	2392.4	2588.3	2568.9	2772.9	3063.9	3181.3	2240.6
62.5°	1184.2	1194.6	1390.2	1731.1	2166.9	2690.4	3057.5	3091.2	3263.3	3445.9	2559.6
65°	610.6	597.0	775.3	1088.0	1633.7	2448.1	3453.4	3676.3	3695.7	3859.8	3008.9
67.5°	375.9	382.0	465.4	635.3	966.0	1779.2	3412.0	4391.3	4289.0	4367.8	3425.9
70°	282.3	289.8	347.2	434.7	588.9	1017.3	2744.0	4564.6	4707.5	4687.2	3552.8
71°	245.5	253.3	313.0	395.6	494.7	785.1	2311.9	4383.2	4722.0	4718.5	3505.0
72.5°	209.2	214.2	260.8	335.0	417.0	550.4	1736.9	3931.0	4520.5	4636.2	3334.3
75°	164.3	168.1	189.0	255.6	328.4	337.9	932.0	2947.1	3712.8	3933.1	2775.8
77.5°	133.9	136.5	147.2	189.8	253.3	239.4	488.9	1918.3	2326.1	2547.8	1635.1
80°	106.4	109.3	115.6	128.7	189.8	170.7	233.3	972.0	1123.6	1121.3	652.7
82.5°	82.6	83.5	91.0	94.5	129.8	121.1	126.4	411.5	455.9	470.9	235.6
85°	52.2	54.8	80.6	72.5	77.7	71.0	62.3	163.5	201.4	198.5	94.2
87.5°	15.9	16.8	27.2	30.7	34.5	31.0	22.9	48.1	58.8	63.8	23.5
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°	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2
2.5°	650.9	647.7	636.4	627.2	618.5	608.9	600.8	598.5	596.4	595.6	595.3
5°	657.0	647.4	625.1	606.9	592.4	579.1	570.6	566.9	563.1	563.1	564.3
7.5°	665.7	648.3	613.8	586.6	568.3	555.9	549.8	549.2	550.1	550.9	551.2
10°	675.3	647.7	597.3	563.4	547.2	541.4	541.7	546.6	551.2	554.7	555.3
12.5°	684.5	644.3	577.9	541.7	531.2	532.4	540.5	551.5	560.5	565.4	565.7
15°	695.0	638.8	554.4	521.1	517.6	526.6	541.7	558.5	572.1	580.2	581.1
17.5°	703.7	629.5	529.8	501.1	505.4	522.0	542.8	564.6	581.1	591.2	593.0
20°	713.5	617.6	504.3	482.0	494.4	516.7	540.5	564.0	581.1	590.9	593.3
22.5°	721.3	600.8	479.9	466.3	484.6	510.4	532.7	551.5	565.4	570.6	574.1
25°	724.5	579.6	457.0	453.6	476.7	499.9	515.0	525.7	530.1	529.5	530.9
27.5°	722.8	555.3	437.3	443.4	466.9	483.7	491.2	490.4	482.5	475.3	478.8
30°	715.6	526.3	420.8	433.0	454.1	463.4	462.3	451.0	436.2	422.6	423.4
32.5°	702.5	495.0	405.5	421.1	436.2	440.2	432.4	417.6	396.5	378.8	376.2
35°	691.5	465.2	391.8	407.5	418.2	416.2	408.6	389.5	370.4	354.7	352.1
37.5°	689.8	439.6	378.8	392.1	398.2	395.3	386.0	369.8	362.8	351.0	349.5
40°	699.0	421.7	365.5	375.9	378.8	376.5	366.3	357.1	363.4	360.5	360.5
42.5°	724.2	412.1	353.6	359.7	362.0	363.7	356.5	348.6	356.5	343.1	338.8
45°	764.2	412.4	342.9	343.7	350.7	356.8	351.8	340.2	336.2	309.5	304.3
47.5°	823.1	422.3	334.2	328.7	341.1	351.3	344.3	327.5	309.5	291.8	288.7
50°	891.8	439.9	326.3	313.0	328.4	344.3	339.1	319.4	300.8	290.1	288.1
52.5°	968.0	462.3	316.8	295.6	312.7	341.1	340.2	318.2	292.7	285.5	283.7
55°	1062.2	484.3	304.9	275.3	298.8	338.5	337.1	308.7	291.0	285.8	285.2
57.5°	1171.7	516.2	287.8	254.7	282.9	327.8	324.6	302.9	285.2	281.4	281.1
60°	1348.2	565.7	263.4	235.9	266.6	308.9	313.0	293.0	275.9	275.0	274.7
62.5°	1580.4	635.3	238.2	216.5	247.8	284.6	296.2	279.7	266.1	270.4	271.0
65°	1900.9	693.8	212.1	200.0	226.9	261.1	280.3	267.2	255.0	263.4	263.4
67.5°	2109.9	695.0	188.4	182.9	205.8	241.4	263.4	252.4	240.8	255.0	255.6
70°	2066.4	608.9	168.7	164.9	185.2	220.3	244.9	236.2	222.9	235.6	231.0
71°	1996.2	561.1	160.8	157.9	177.1	210.1	236.2	229.0	215.6	224.0	221.4
72.5°	1884.4	487.2	148.1	148.7	164.9	197.4	224.0	216.5	203.2	207.8	206.9
75°	1592.8	425.4	126.6	129.3	141.7	175.6	199.7	193.9	180.3	180.3	179.4
77.5°	995.8	297.4	105.2	106.7	120.3	150.4	171.6	166.6	153.6	149.3	148.1
80°	371.5	153.6	82.3	84.0	92.5	118.5	142.0	137.4	124.0	119.1	114.5
82.5°	140.6	77.1	60.6	59.1	68.1	90.4	111.3	105.8	95.3	83.5	80.0
85°	53.0	38.3	37.1	35.9	40.0	53.6	69.0	67.8	56.8	48.4	47.5
87.5°	13.9	12.5	14.5	10.7	11.3	10.1	10.4	4.3	2.0	0.9	0.6
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)