

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: P458560

Luminaire Tested: **GALN-SA1B-735-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458560
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-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5394 lumens
Efficiency: N/A
Efficacy: 122.6 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

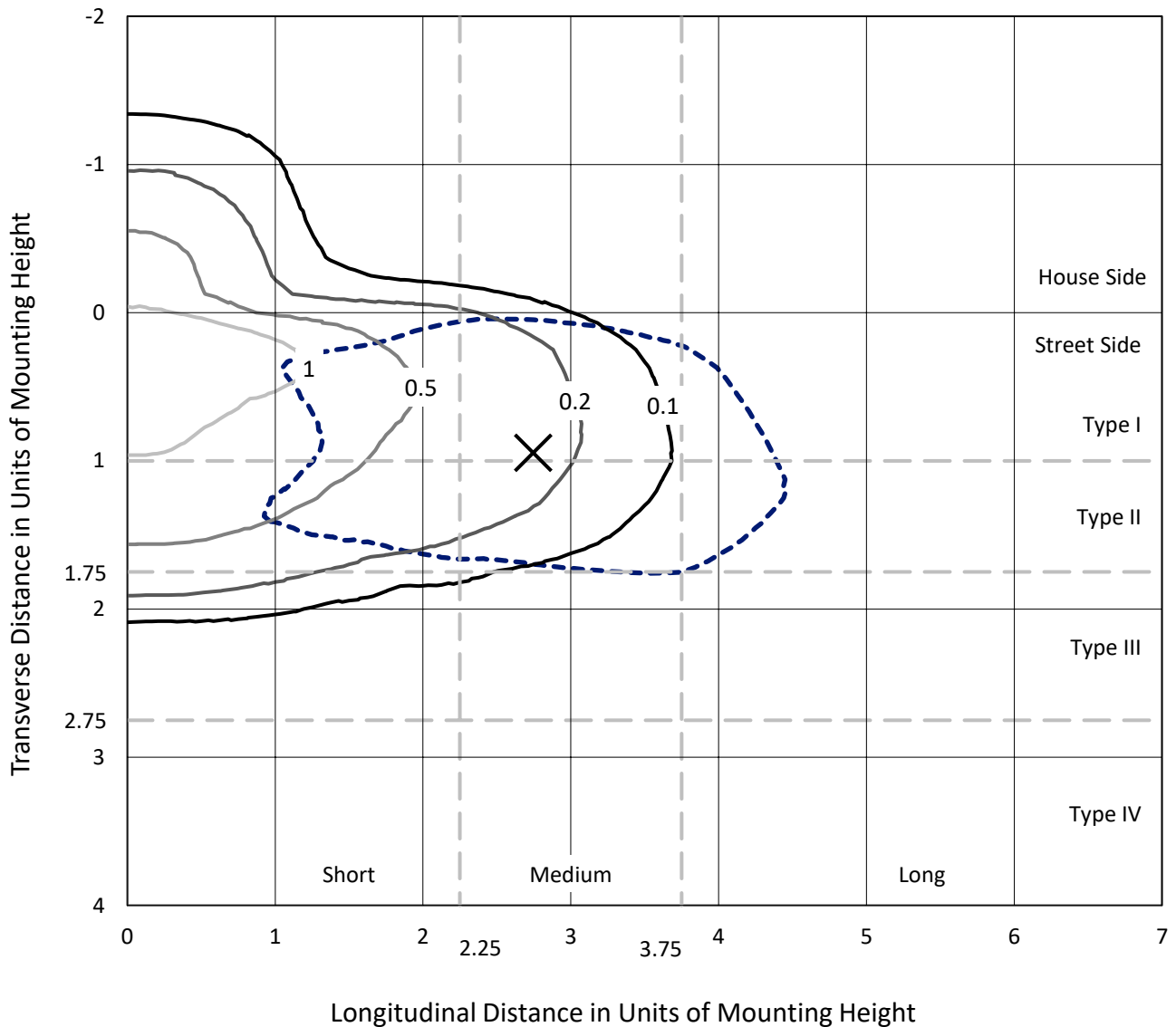
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

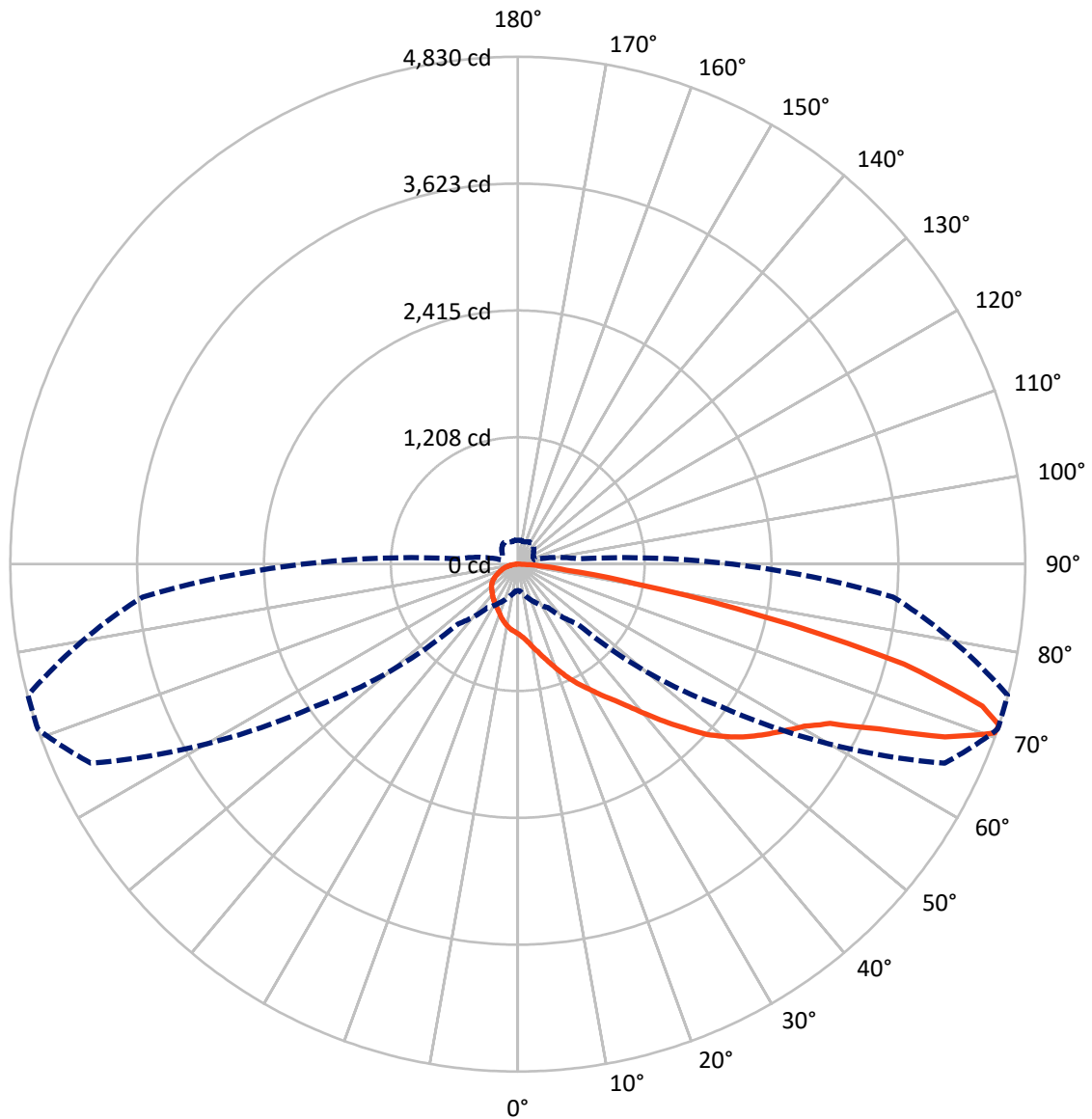
× Max cd
 - - - 1/2 Max cd



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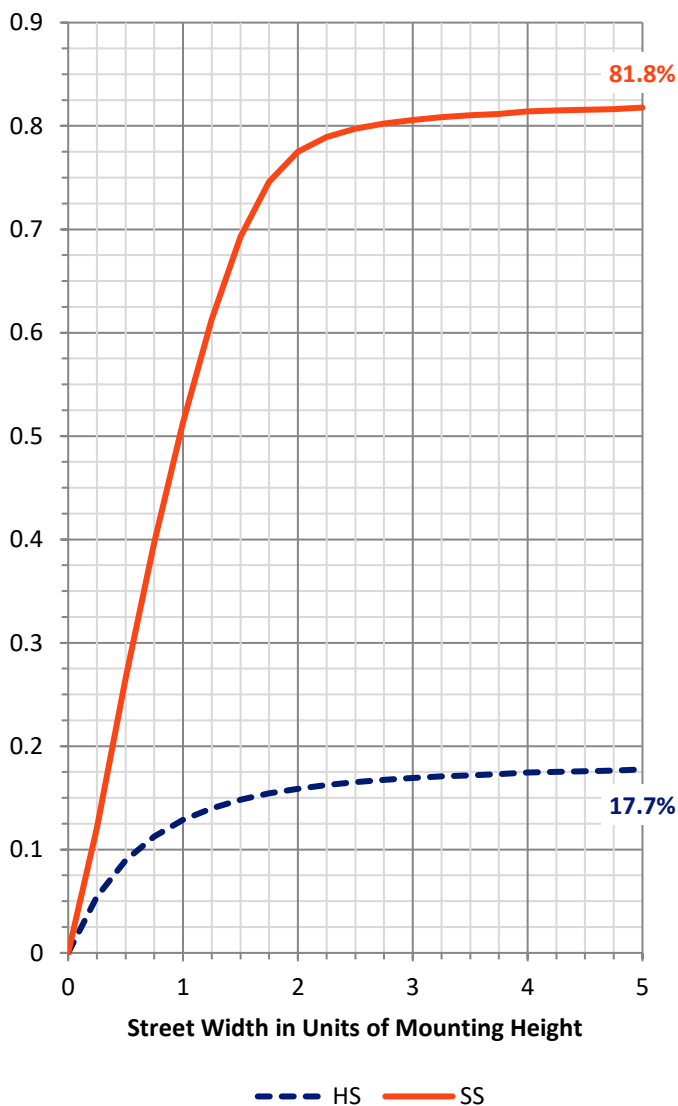
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	970.1	0.0	970.1
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	4423.9	0.0	4423.9
	% Fixture	82.0	0.0	82.0
Total	Lumens	5394.0	0.0	5394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	1.2
10°-20°	216.0	4.0
20°-30°	377.4	7.0
30°-40°	561.3	10.4
40°-50°	827.1	15.3
50°-60°	1157.9	21.5
60°-70°	1295.1	24.0
70°-80°	791.1	14.7
80°-90°	101.8	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°	5394.0	100.0
0°-180°	5394.0	100.0

Coefficient of Utilization



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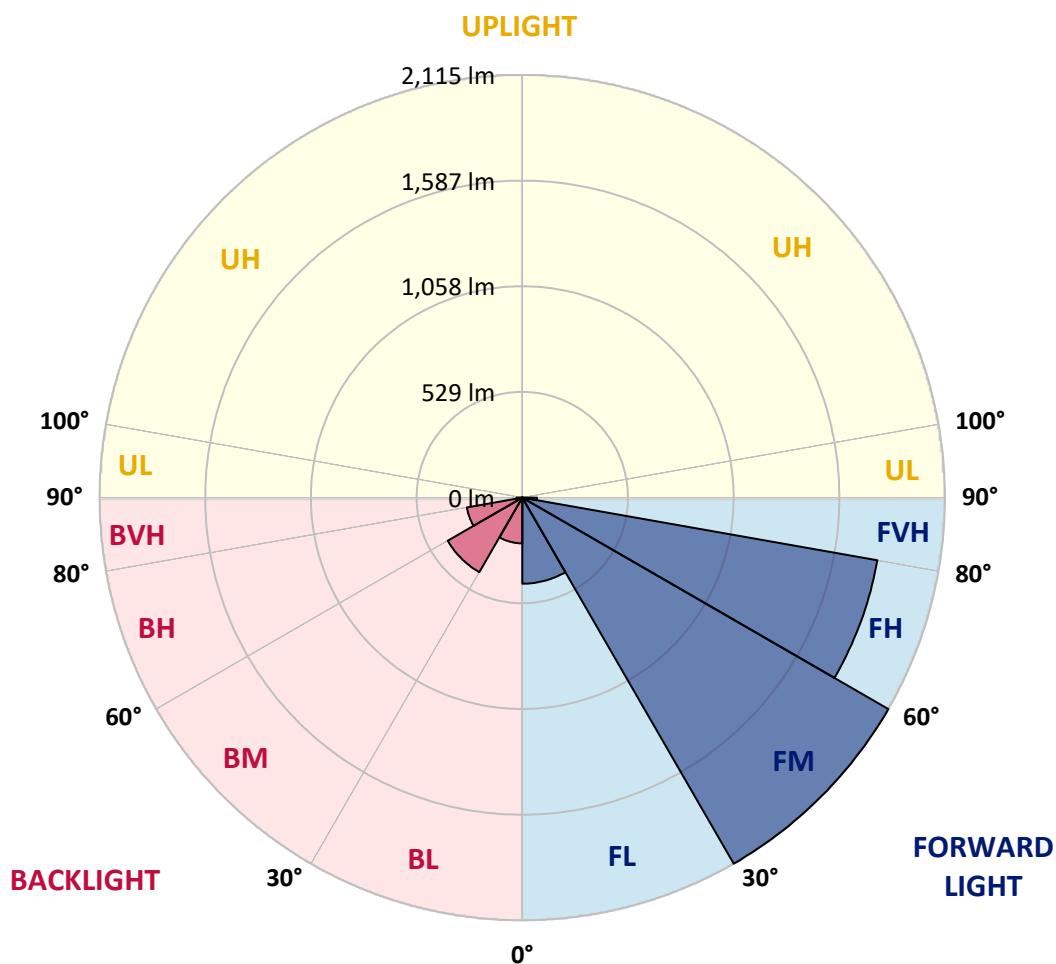
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	431.0	8.0			
FM	(30°-60°)	2115.4	39.2			
FH	(60°-80°)	1804.3	33.4			G2/5000
FVH	(80°-90°)	73.2	1.4			G1/100
BL	(0°-30°)	228.8	4.2	B1/500		
BM	(30°-60°)	430.9	8.0	B1/1000		
BH	(60°-80°)	281.9	5.2	B1/500		G1/500
BVH	(80°-90°)	28.5	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°	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0
2.5°	734.9	731.4	731.7	726.6	720.1	713.0	702.9	694.0	686.9	682.8	670.6
5°	814.4	810.8	806.4	795.4	790.7	773.2	750.9	730.8	715.4	706.8	682.5
7.5°	878.7	877.8	876.6	870.4	858.3	834.0	815.0	780.0	757.2	740.9	699.4
10°	918.4	919.9	920.8	922.0	917.0	904.2	878.1	834.0	804.9	784.2	721.3
12.5°	938.6	940.1	945.1	956.1	962.9	961.4	940.1	896.8	856.8	829.5	744.7
15°	951.1	953.4	962.3	976.9	999.7	1014.2	1003.8	963.8	919.9	887.6	772.6
17.5°	964.7	967.4	977.1	997.9	1027.8	1059.3	1070.5	1036.1	988.4	949.9	803.7
20°	972.4	976.0	989.9	1017.2	1052.2	1097.8	1135.2	1117.1	1064.9	1022.2	839.6
22.5°	984.9	987.8	999.7	1028.7	1070.5	1127.8	1199.8	1195.9	1150.0	1094.8	879.0
25°	1018.7	1023.4	1029.3	1046.8	1087.1	1158.3	1253.5	1280.1	1232.4	1170.7	915.2
27.5°	1082.4	1086.2	1086.0	1088.3	1111.2	1184.7	1300.0	1363.4	1314.2	1247.5	950.2
30°	1155.0	1156.5	1157.7	1152.4	1157.4	1211.7	1342.7	1445.9	1396.6	1326.4	980.7
32.5°	1243.4	1246.3	1236.3	1222.6	1218.5	1251.7	1378.0	1528.3	1494.2	1406.4	1010.9
35°	1347.7	1355.4	1335.0	1311.0	1294.1	1309.2	1425.4	1612.5	1594.1	1508.7	1051.0
37.5°	1466.9	1476.4	1457.4	1410.3	1386.3	1390.4	1487.4	1716.5	1720.4	1625.2	1110.6
40°	1564.4	1576.9	1577.5	1510.8	1474.3	1479.1	1565.9	1828.6	1872.8	1769.3	1180.8
42.5°	1628.8	1640.9	1653.7	1614.6	1576.3	1603.3	1657.5	1950.1	2044.1	1944.2	1279.0
45°	1699.3	1710.3	1717.4	1699.6	1678.3	1748.3	1768.1	2079.4	2226.8	2139.6	1386.3
47.5°	1781.2	1793.3	1800.1	1783.2	1775.2	1875.4	1887.3	2200.1	2421.8	2329.3	1504.9
50°	1890.3	1899.5	1895.9	1885.2	1883.4	1973.0	2001.7	2313.0	2582.8	2533.6	1627.9
52.5°	2026.0	2037.0	2040.9	2025.7	2018.9	2042.6	2093.9	2415.9	2729.3	2709.1	1759.2
55°	2108.2	2125.7	2184.4	2208.1	2224.4	2132.8	2193.3	2529.4	2860.6	2894.1	1900.3
57.5°	2002.9	2025.5	2156.8	2275.4	2428.6	2358.1	2334.1	2648.0	2991.9	3073.5	2069.3
60°	1746.2	1751.2	1920.5	2139.0	2447.3	2647.7	2627.9	2836.6	3134.2	3254.3	2292.0
62.5°	1211.4	1222.0	1422.1	1770.8	2216.7	2752.1	3127.7	3162.1	3338.2	3525.0	2618.4
65°	624.7	610.7	793.0	1112.9	1671.2	2504.2	3532.7	3760.7	3780.5	3948.3	3077.9
67.5°	384.5	390.7	476.1	649.9	988.1	1820.0	3490.3	4492.0	4387.4	4468.0	3504.5
70°	288.8	296.5	355.2	444.7	602.4	1040.6	2806.9	4669.3	4815.5	4794.7	3634.4
71°	251.1	259.1	320.2	404.7	506.1	803.1	2364.9	4483.7	4830.3	4826.8	3585.5
72.5°	214.0	219.1	266.8	342.7	426.6	563.0	1776.7	4021.3	4624.3	4742.6	3410.8
75°	168.1	171.9	193.3	261.5	335.9	345.7	953.4	3014.8	3798.0	4023.3	2839.5
77.5°	137.0	139.6	150.6	194.2	259.1	244.9	500.1	1962.3	2379.4	2606.2	1672.7
80°	108.8	111.8	118.3	131.6	194.2	174.6	238.7	994.3	1149.4	1147.0	667.6
82.5°	84.5	85.4	93.1	96.6	132.8	123.9	129.3	421.0	466.3	481.8	241.0
85°	53.4	56.0	82.4	74.1	79.5	72.6	63.7	167.2	206.0	203.1	96.4
87.5°	16.3	17.2	27.9	31.4	35.3	31.7	23.4	49.2	60.2	65.2	24.0
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°	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0	662.0
2.5°	665.9	662.6	651.0	641.6	632.7	622.9	614.6	612.2	610.1	609.2	608.9
5°	672.1	662.3	639.5	620.8	606.0	592.3	583.7	579.9	576.0	576.0	577.2
7.5°	681.0	663.2	627.9	600.0	581.4	568.6	562.4	561.8	562.7	563.6	563.9
10°	690.8	662.6	611.0	576.3	559.7	553.8	554.1	559.1	563.9	567.4	568.0
12.5°	700.3	659.0	591.2	554.1	543.4	544.6	552.9	564.2	573.4	578.4	578.7
15°	710.9	653.4	567.1	533.0	529.5	538.7	554.1	571.3	585.2	593.5	594.4
17.5°	719.8	643.9	541.9	512.6	517.0	533.9	555.3	577.5	594.4	604.8	606.6
20°	729.9	631.8	515.8	493.0	505.8	528.6	552.9	576.9	594.4	604.5	606.9
22.5°	737.9	614.6	490.9	477.0	495.7	522.1	544.9	564.2	578.4	583.7	587.3
25°	741.2	592.9	467.5	464.0	487.7	511.4	526.8	537.8	542.2	541.6	543.1
27.5°	739.4	568.0	447.4	453.6	477.6	494.8	502.5	501.6	493.6	486.2	489.8
30°	732.0	538.4	430.5	442.9	464.6	474.0	472.9	461.3	446.2	432.2	433.1
32.5°	718.6	506.4	414.8	430.8	446.2	450.3	442.3	427.2	405.6	387.5	384.8
35°	707.4	475.8	400.8	416.8	427.8	425.7	418.0	398.4	378.9	362.9	360.2
37.5°	705.6	449.7	387.5	401.1	407.3	404.4	394.9	378.3	371.2	359.0	357.5
40°	715.1	431.4	373.8	384.5	387.5	385.1	374.7	365.2	371.8	368.8	368.8
42.5°	740.9	421.6	361.7	367.9	370.3	372.1	364.7	356.6	364.7	351.0	346.6
45°	781.8	421.9	350.7	351.6	358.7	364.9	359.9	348.1	343.9	316.6	311.3
47.5°	842.0	431.9	341.8	336.2	348.9	359.3	352.2	335.0	316.6	298.5	295.3
50°	912.2	450.0	333.8	320.2	335.9	352.2	346.9	326.7	307.7	296.8	294.7
52.5°	990.2	472.9	324.0	302.4	319.9	348.9	348.1	325.5	299.4	292.0	290.2
55°	1086.5	495.4	311.9	281.6	305.7	346.3	344.8	315.7	297.7	292.3	291.7
57.5°	1198.6	528.0	294.4	260.6	289.4	335.3	332.0	309.8	291.7	287.9	287.6
60°	1379.2	578.7	269.5	241.3	272.7	316.0	320.2	299.7	282.2	281.3	281.0
62.5°	1616.6	649.9	243.7	221.5	253.5	291.1	303.0	286.1	272.2	276.6	277.2
65°	1944.5	709.7	217.0	204.6	232.1	267.1	286.7	273.3	260.9	269.5	269.5
67.5°	2158.3	710.9	192.7	187.1	210.5	247.0	269.5	258.2	246.4	260.9	261.5
70°	2113.8	622.9	172.5	168.7	189.4	225.3	250.5	241.6	228.0	241.0	236.3
71°	2042.1	574.0	164.5	161.6	181.1	214.9	241.6	234.2	220.6	229.2	226.5
72.5°	1927.6	498.4	151.5	152.1	168.7	201.9	229.2	221.5	207.8	212.6	211.7
75°	1629.4	435.2	129.6	132.2	145.0	179.7	204.3	198.3	184.4	184.4	183.5
77.5°	1018.7	304.2	107.6	109.1	123.0	153.9	175.5	170.5	157.1	152.7	151.5
80°	380.1	157.1	84.2	86.0	94.6	121.3	145.3	140.5	126.9	121.8	117.1
82.5°	143.8	78.9	62.0	60.5	69.7	92.5	113.8	108.2	97.5	85.4	81.8
85°	54.3	39.1	37.9	36.8	40.9	54.8	70.6	69.4	58.1	49.5	48.6
87.5°	14.2	12.7	14.8	11.0	11.6	10.4	10.7	4.4	2.1	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)