

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: P450339

Luminaire Tested: **GALN-SA1A-827-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3435 lumens
Efficiency: N/A
Efficacy: 104.1 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

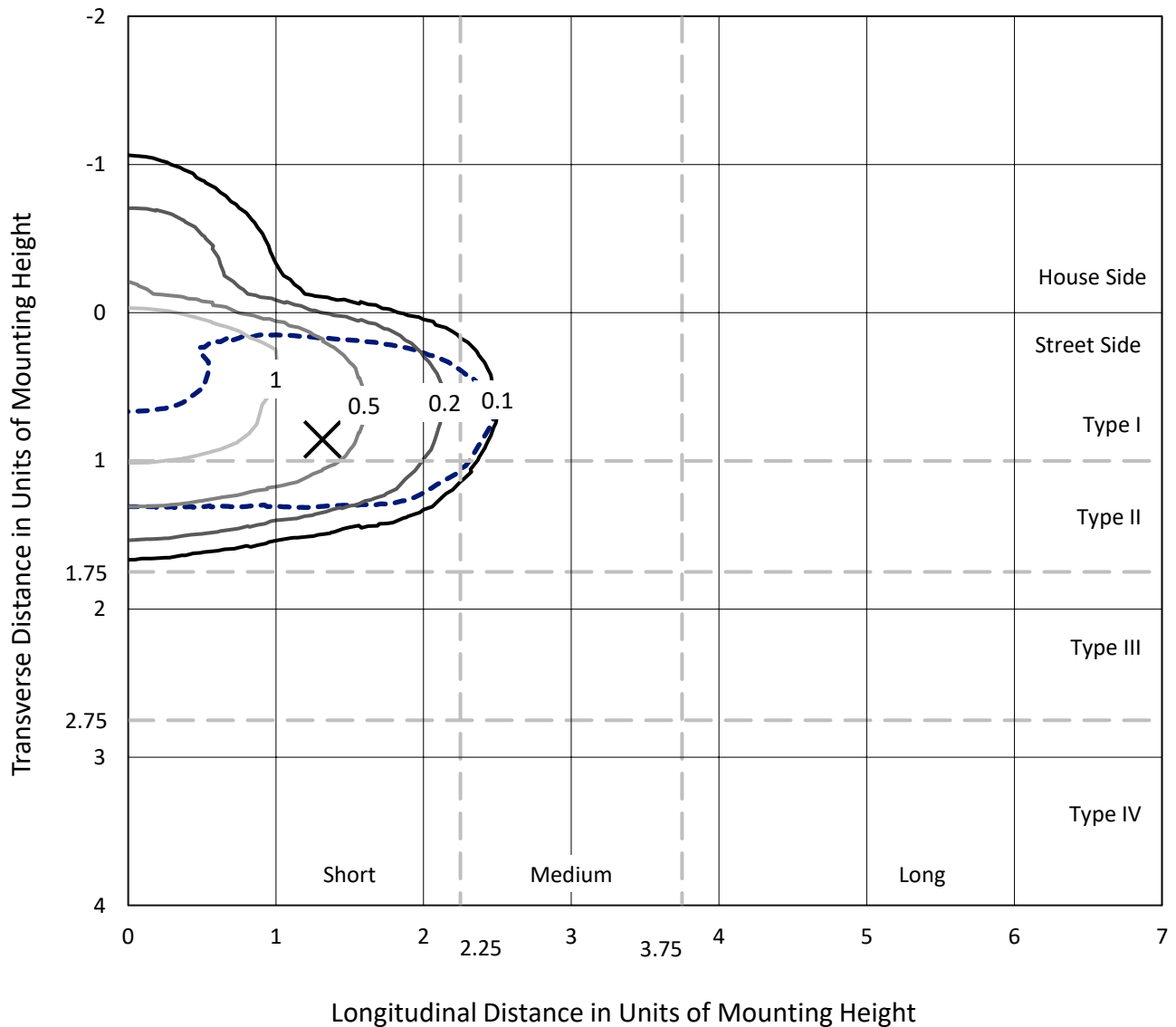
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

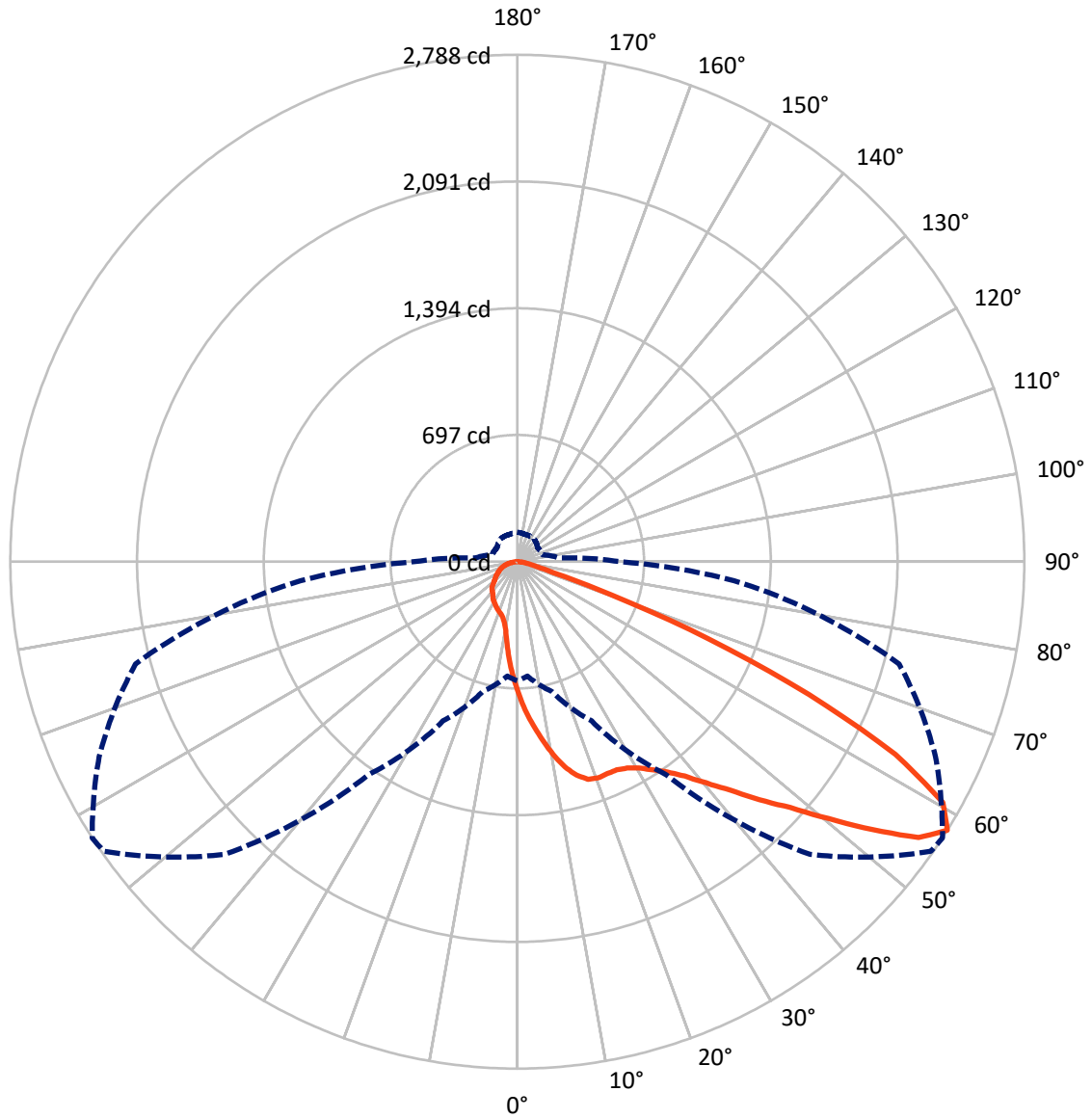
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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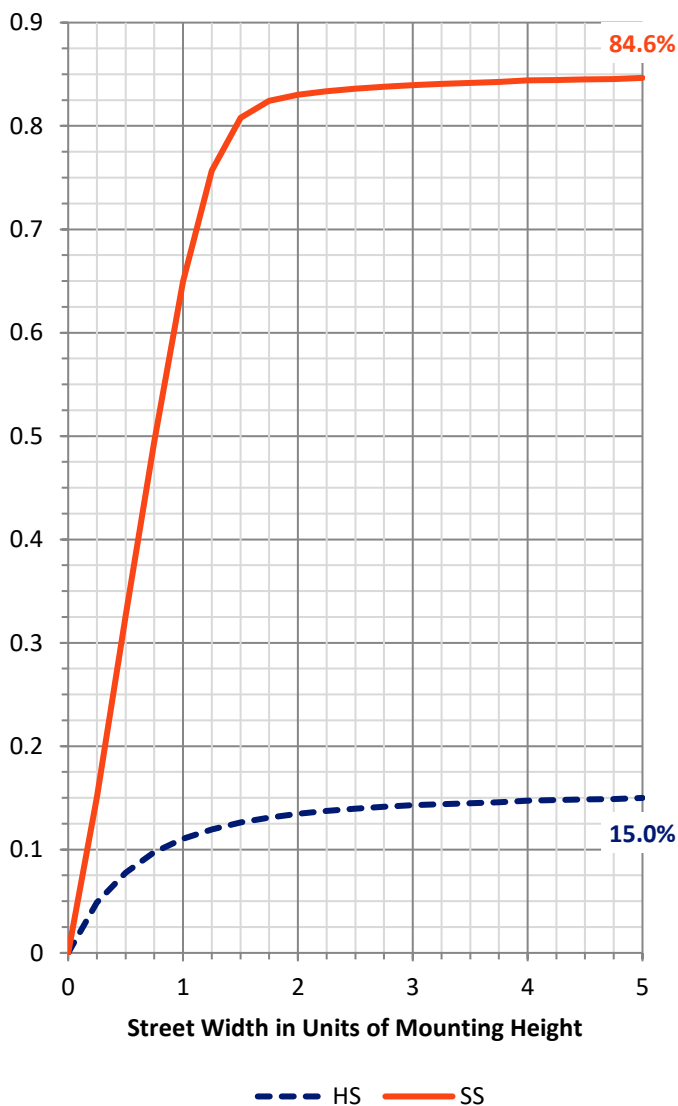
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	522.4	0.0	522.4
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	2912.6	0.0	2912.6
	% Fixture	84.8	0.0	84.8
Total	Lumens	3435.0	0.0	3435.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	2.0
10°-20°	204.4	6.0
20°-30°	339.4	9.9
30°-40°	511.3	14.9
40°-50°	767.6	22.3
50°-60°	860.4	25.0
60°-70°	503.5	14.7
70°-80°	148.9	4.3
80°-90°	30.1	0.9
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°	3435.0	100.0
0°-180°	3435.0	100.0

Coefficient of Utilization



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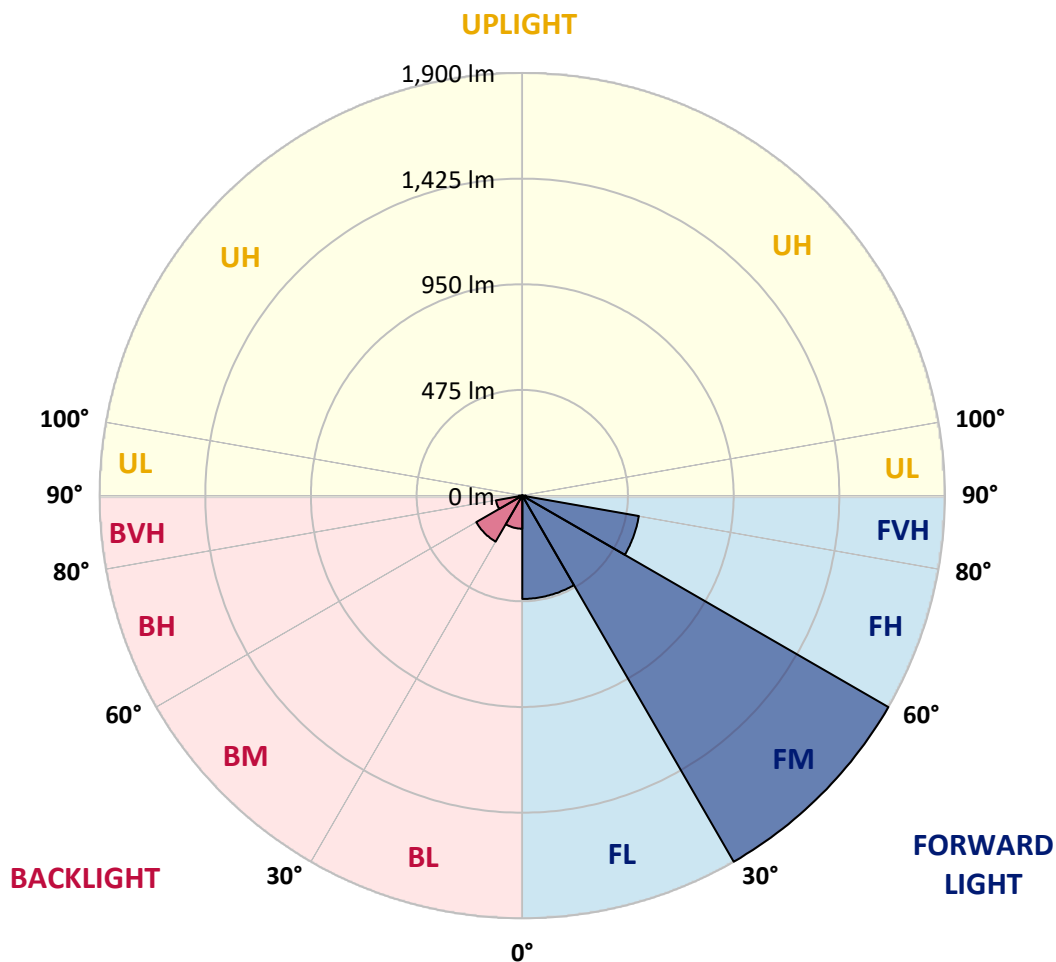
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	464.3	13.5			
FM (30°-60°)	1900.4	55.3			
FH (60°-80°)	532.3	15.5			G0/660
FVH (80°-90°)	15.6	0.5			G1/100
BL (0°-30°)	148.8	4.3	B1/500		
BM (30°-60°)	238.8	7.0	B1/1000		
BH (60°-80°)	120.2	3.5	B1/500		G1/500
BVH (80°-90°)	14.5	0.4			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	721.7	721.7	721.7	721.7	721.7	721.7	721.7	721.7	721.7	721.7	721.7
2.5°	896.7	886.9	879.2	872.5	863.6	839.7	815.9	815.5	796.5	767.2	737.1
5°	1042.8	1029.6	1031.3	1010.3	989.2	954.6	904.0	901.4	861.0	806.1	750.2
7.5°	1137.9	1138.1	1132.9	1120.8	1098.1	1058.8	1001.4	988.5	932.2	848.9	765.3
10°	1133.1	1138.1	1147.0	1157.3	1164.3	1144.9	1092.6	1076.8	1003.7	900.8	782.0
12.5°	1068.0	1075.9	1088.5	1114.4	1156.4	1188.3	1170.5	1157.7	1086.4	952.6	800.4
15°	1027.4	1032.1	1039.0	1056.5	1101.7	1178.2	1224.4	1217.7	1164.5	1011.0	821.1
17.5°	1015.0	1019.7	1021.9	1032.7	1064.8	1143.2	1245.7	1257.7	1233.7	1064.8	842.0
20°	1027.4	1029.6	1029.6	1036.0	1061.2	1122.7	1244.8	1269.0	1290.4	1129.3	861.5
22.5°	1059.9	1060.9	1059.5	1061.8	1080.6	1128.4	1235.9	1266.0	1336.3	1184.0	876.8
25°	1112.8	1114.3	1105.6	1100.3	1114.1	1153.2	1240.8	1268.4	1372.2	1236.3	886.9
27.5°	1172.7	1174.6	1164.1	1151.9	1158.3	1183.8	1260.0	1284.8	1399.1	1287.8	893.3
30°	1246.3	1247.0	1229.3	1214.7	1210.5	1229.5	1292.7	1315.8	1432.6	1348.5	902.9
32.5°	1321.5	1327.1	1304.4	1283.7	1276.7	1282.5	1341.0	1363.4	1472.5	1413.8	918.3
35°	1423.8	1424.7	1397.4	1372.2	1349.3	1356.8	1402.9	1419.1	1527.5	1489.2	940.1
37.5°	1551.4	1560.1	1522.5	1475.5	1447.3	1436.4	1477.7	1495.4	1604.8	1581.7	973.0
40°	1693.2	1696.4	1664.2	1634.9	1583.4	1551.8	1580.4	1599.6	1700.2	1692.1	1011.2
42.5°	1782.3	1789.3	1791.7	1788.7	1750.0	1697.0	1707.9	1716.9	1813.0	1795.7	1050.3
45°	1812.4	1822.8	1857.7	1931.8	1935.9	1883.7	1858.3	1866.9	1935.9	1900.2	1087.7
47.5°	1762.6	1780.3	1844.7	1996.7	2110.4	2114.4	2037.9	2018.9	2048.0	1986.9	1114.8
50°	1633.8	1637.5	1736.3	1956.3	2192.2	2334.9	2255.8	2220.4	2154.4	2051.0	1133.4
52.5°	1434.5	1438.8	1521.5	1768.4	2141.8	2489.1	2510.7	2447.6	2262.5	2100.8	1145.7
55°	1064.8	1089.8	1180.8	1419.4	1903.0	2474.6	2713.4	2677.5	2393.2	2140.3	1164.8
57.5°	654.7	631.8	739.7	965.7	1431.3	2275.7	2776.1	2787.7	2537.1	2173.4	1197.0
60°	301.2	305.7	350.3	498.1	872.5	1780.3	2614.7	2688.4	2616.6	2172.3	1205.1
62.5°	207.6	203.4	192.2	218.7	397.9	1125.9	2208.6	2333.4	2457.2	2104.8	1172.9
65°	185.6	181.4	159.6	152.3	182.8	490.8	1605.6	1763.1	2068.9	1934.4	1092.8
67.5°	173.4	167.7	145.2	130.9	130.5	195.4	946.7	1136.4	1534.5	1635.5	946.9
70°	160.6	156.1	133.7	117.9	111.1	122.8	416.1	544.7	996.4	1178.6	737.6
72.5°	147.8	142.5	122.4	105.5	96.6	91.9	159.4	207.4	563.0	706.6	452.2
75°	129.2	126.5	109.4	95.5	85.9	74.3	101.2	115.4	269.3	324.5	227.0
77.5°	113.0	110.2	97.2	83.5	76.5	60.4	71.8	78.4	113.6	131.6	102.5
80°	82.7	85.6	82.0	73.7	68.3	47.4	48.3	53.8	67.5	74.6	62.6
82.5°	52.5	57.7	63.2	56.8	51.7	37.4	33.5	35.5	46.1	48.9	27.8
85°	22.0	22.4	36.7	34.6	29.5	22.2	20.1	21.2	24.6	25.8	13.0
87.5°	8.5	8.3	13.0	12.0	9.2	6.4	6.4	7.1	9.8	9.0	4.1
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°	721.7	721.7	721.7	721.7	721.7	721.7	721.7	721.7	721.7	721.7	721.7
2.5°	724.1	710.7	684.2	651.3	627.3	600.2	576.3	559.2	552.8	549.8	544.2
5°	723.5	697.2	642.3	584.8	538.5	491.1	451.1	425.1	422.9	405.6	403.9
7.5°	723.7	683.5	596.1	511.4	440.9	392.4	359.3	350.7	340.3	337.7	339.0
10°	724.3	666.0	546.4	438.9	370.6	338.8	326.4	323.0	323.4	324.5	324.7
12.5°	725.0	649.1	494.9	383.8	331.1	318.0	316.6	319.6	322.8	325.3	325.9
15°	726.0	629.7	444.7	339.4	311.4	310.2	314.6	319.6	324.2	327.7	328.3
17.5°	724.9	607.1	402.6	312.1	300.5	305.9	313.1	319.5	323.6	327.0	327.4
20°	722.2	581.9	362.0	292.9	293.7	302.5	310.2	316.3	320.8	322.5	323.8
22.5°	712.1	551.9	326.6	278.1	285.6	297.8	307.1	310.6	305.5	302.0	302.9
25°	694.8	512.8	293.7	266.1	278.3	291.3	300.7	292.0	287.9	286.4	287.1
27.5°	673.1	469.9	268.9	253.5	268.9	283.9	281.3	279.8	277.9	275.5	276.0
30°	649.8	428.0	247.8	243.7	258.7	267.4	268.5	270.9	268.9	265.1	266.6
32.5°	628.2	388.5	231.8	235.4	251.6	250.3	258.7	261.5	252.0	239.4	239.9
35°	609.8	351.8	219.8	227.3	239.4	239.9	248.4	238.6	228.3	222.2	222.6
37.5°	595.9	323.2	211.9	220.4	223.8	230.9	226.4	221.3	220.0	215.9	216.0
40°	587.6	298.2	206.8	214.9	214.4	219.2	204.8	209.8	211.7	210.4	210.6
42.5°	579.3	280.5	201.6	207.4	207.2	197.6	194.4	198.7	203.6	204.2	203.8
45°	572.7	266.8	196.1	195.9	199.7	184.6	183.7	186.3	193.3	196.7	196.5
47.5°	565.4	255.3	187.8	182.6	183.7	176.6	175.1	176.2	184.6	190.1	191.6
50°	556.2	243.9	177.5	170.4	165.7	169.0	169.4	169.6	178.1	184.3	185.6
52.5°	548.9	235.2	165.7	160.4	154.7	162.3	165.1	165.5	170.5	175.6	176.6
55°	553.2	230.3	154.0	150.2	145.2	155.3	160.8	161.5	162.6	166.4	167.0
57.5°	566.2	231.5	144.6	139.7	135.9	147.0	156.3	156.8	156.1	160.6	161.3
60°	570.1	230.9	137.6	128.0	125.8	138.2	149.7	150.8	150.6	157.2	158.5
62.5°	553.6	223.8	130.7	118.3	116.8	129.2	140.5	145.0	145.9	155.3	157.0
65°	514.6	209.1	121.5	107.9	107.9	119.6	131.6	137.8	140.5	153.1	154.9
67.5°	463.3	191.8	112.1	99.1	98.7	110.4	122.2	128.6	132.7	149.9	151.0
70°	384.5	168.5	100.4	89.5	89.5	100.0	110.7	118.5	124.5	143.8	143.8
72.5°	263.4	140.1	86.3	78.6	78.8	88.6	99.5	108.1	115.3	131.8	132.2
75°	166.6	109.4	70.9	66.9	67.7	76.9	88.2	97.2	111.5	130.3	130.9
77.5°	88.6	76.9	56.4	55.5	56.4	64.9	77.5	89.9	111.9	113.0	111.1
80°	57.3	54.5	44.6	42.7	43.1	52.3	69.0	85.4	89.9	91.0	86.9
82.5°	31.2	34.6	31.6	29.7	29.7	40.8	58.9	67.9	64.5	53.6	51.1
85°	13.4	16.2	16.4	14.3	13.7	25.2	39.5	37.0	34.4	32.9	32.5
87.5°	3.8	5.3	5.3	3.9	3.0	7.0	7.9	2.3	0.0	0.2	0.4
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)