

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: P648242

Luminaire Tested: **GALN-SA1B-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P648242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4511.6 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

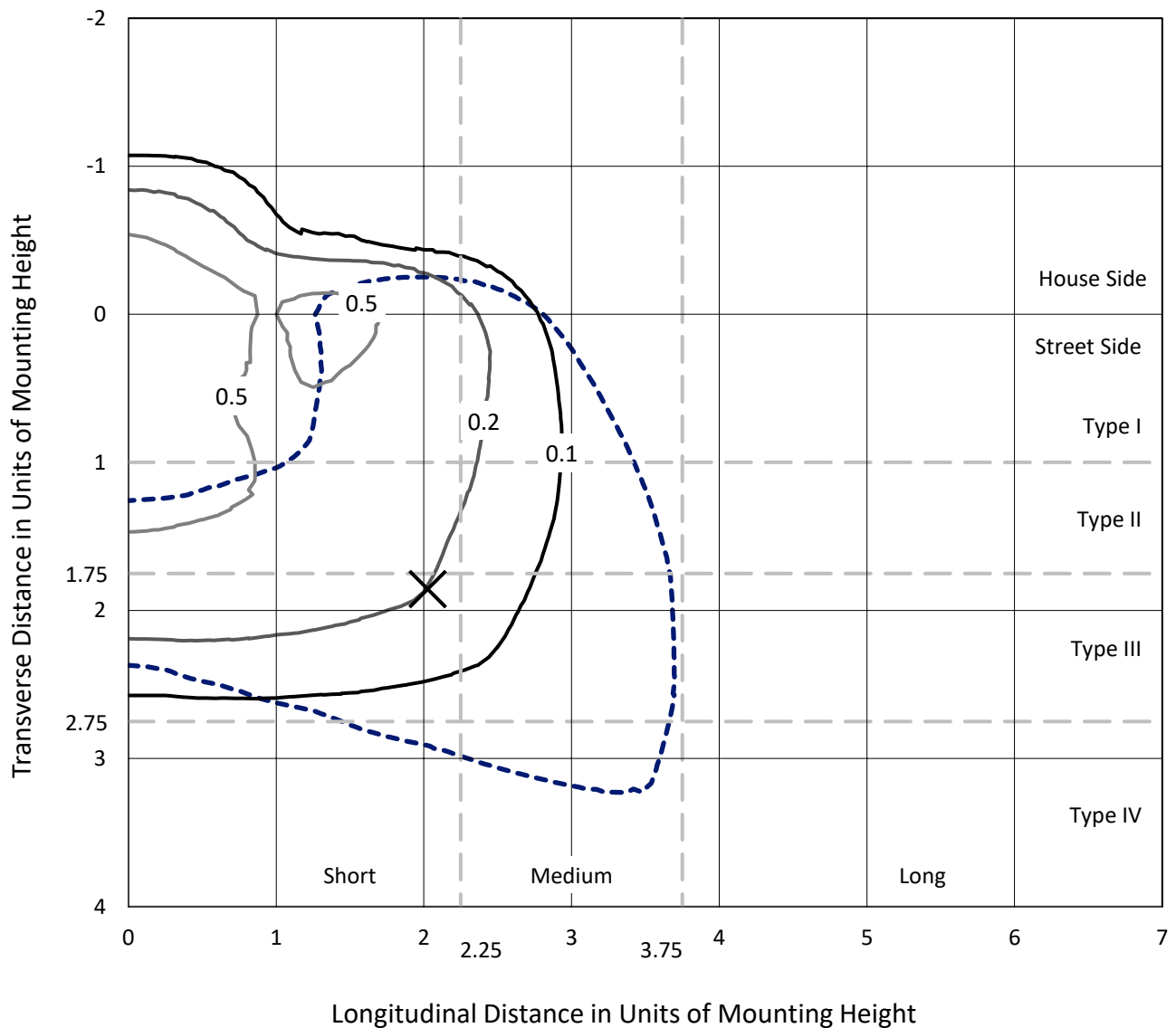
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

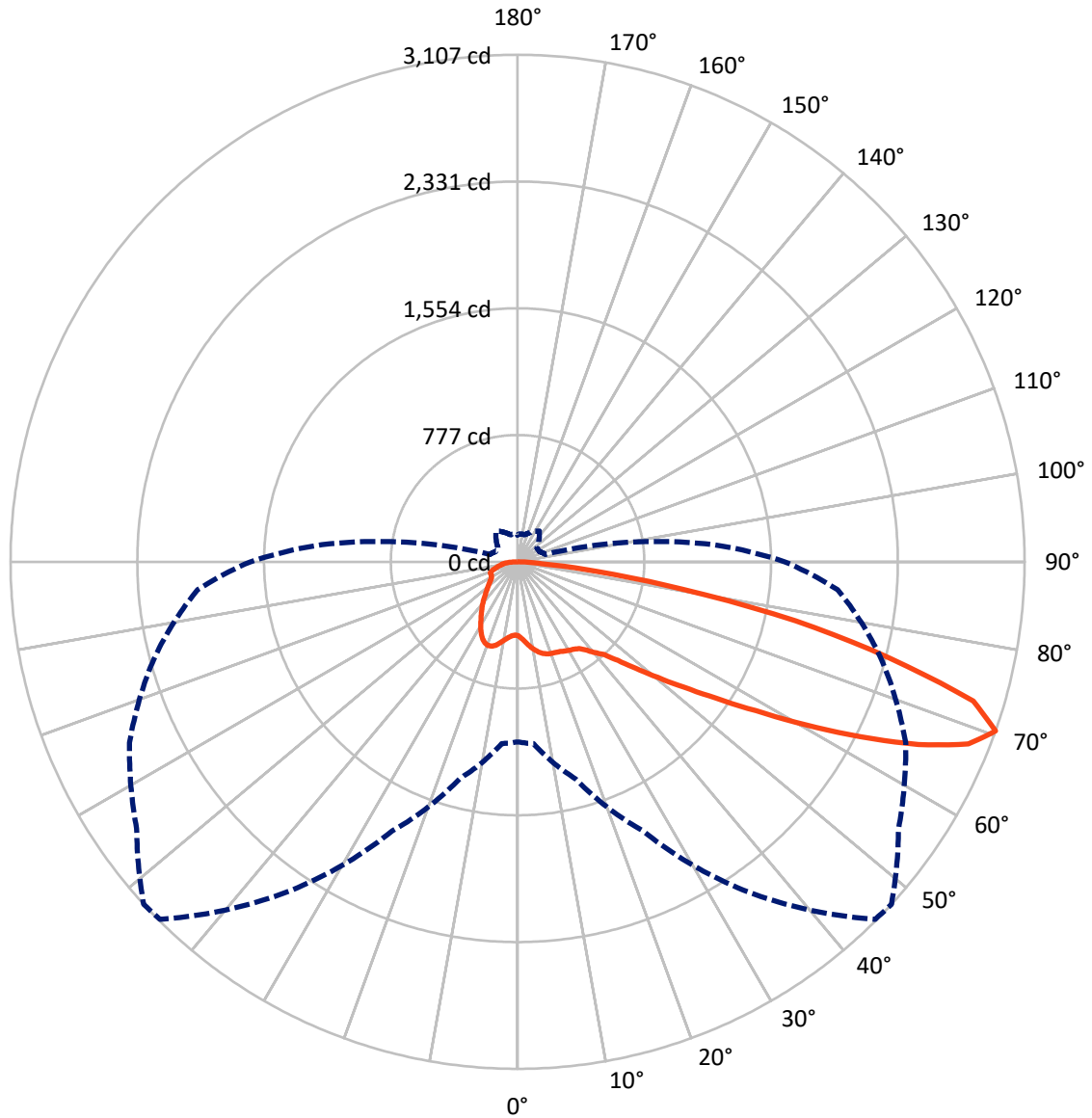
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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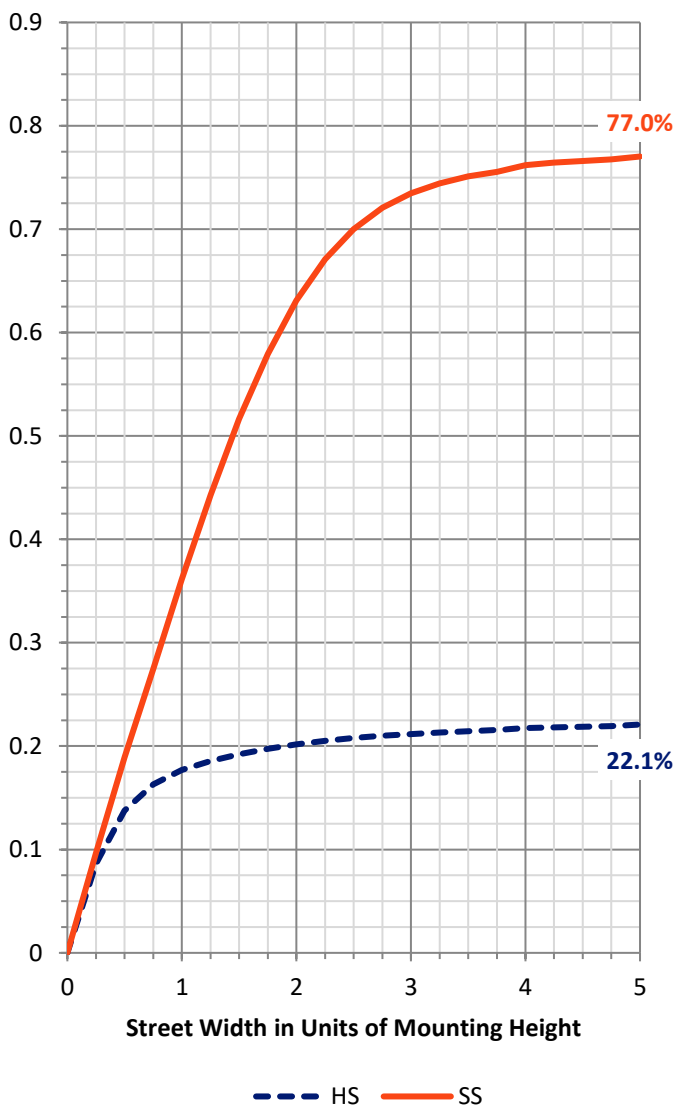
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1021.5	0.0	1021.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3490.1	0.0	3490.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	4511.6	0.0	4511.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	1.0
10°-20°	156.1	3.5
20°-30°	259.6	5.8
30°-40°	367.9	8.2
40°-50°	543.1	12.0
50°-60°	940.6	20.8
60°-70°	1328.6	29.4
70°-80°	763.8	16.9
80°-90°	105.4	2.3
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°	4511.6	100.0
0°-180°	4511.6	100.0

Coefficient of Utilization

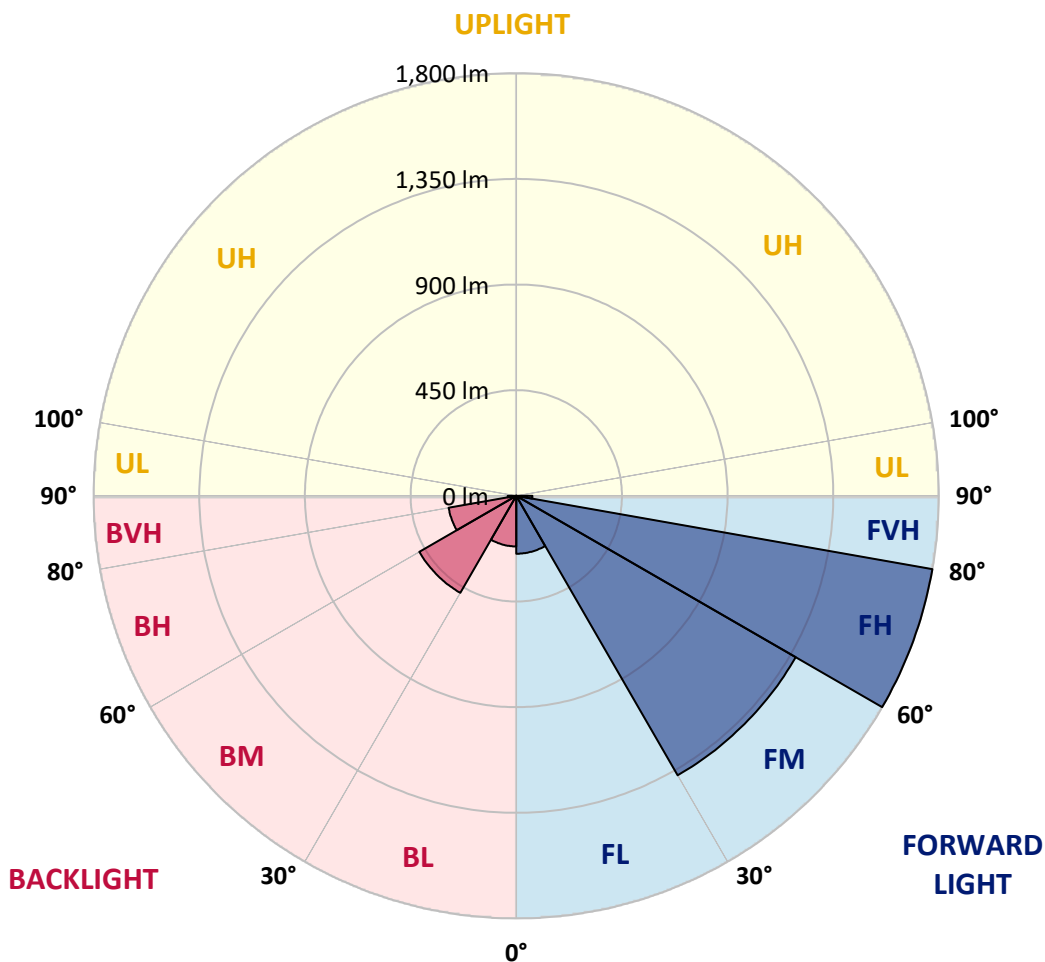


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	246.7	5.5			
FM (30°-60°)	1374.6	30.5			
FH (60°-80°)	1800.0	39.9			G1/1800
FVH (80°-90°)	68.8	1.5			G1/100
BL (0°-30°)	215.6	4.8	B1/500		
BM (30°-60°)	476.9	10.6	B1/1000		
BH (60°-80°)	292.4	6.5	B1/500		G1/500
BVH (80°-90°)	36.5	0.8			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	452.9	452.9	452.9	452.9	452.9	452.9	452.9	452.9	452.9	452.9	452.9
2.5°	482.1	480.4	480.2	476.6	474.7	471.1	469.6	466.2	462.1	458.0	454.1
5°	520.1	520.1	518.3	513.3	505.3	497.1	493.4	486.9	475.4	466.0	458.0
7.5°	558.9	559.4	556.0	548.5	537.1	523.9	520.5	510.8	494.5	480.7	468.9
10°	592.5	592.5	587.9	577.7	563.5	549.0	545.6	534.8	516.4	499.2	483.8
12.5°	618.0	618.0	612.0	598.8	583.3	570.3	566.4	556.0	538.9	519.8	500.3
15°	634.7	633.5	626.7	611.8	596.8	585.4	582.8	574.1	558.4	539.1	517.2
17.5°	635.4	634.9	628.4	615.9	602.8	595.1	593.4	587.6	575.3	556.9	533.8
20°	621.5	622.4	618.0	609.1	602.8	599.5	598.8	596.8	588.1	571.0	547.8
22.5°	606.4	608.2	604.1	599.2	598.8	602.1	602.6	603.1	597.5	580.9	559.6
25°	602.8	604.1	599.9	595.6	598.3	607.2	609.1	611.1	606.7	592.7	573.6
27.5°	621.2	620.2	612.2	602.8	604.6	616.6	619.3	621.5	619.3	607.2	591.0
30°	673.1	669.9	654.0	626.5	617.8	626.2	628.9	634.9	634.9	626.0	609.9
32.5°	760.0	754.0	724.7	670.7	640.5	635.4	638.1	648.0	653.0	646.1	628.4
35°	865.5	859.3	817.5	744.8	682.0	653.8	653.0	664.1	677.7	662.0	639.1
37.5°	971.5	965.0	914.8	833.2	742.6	692.4	688.1	691.9	697.7	669.0	653.8
40°	1077.5	1069.7	1025.8	931.9	816.7	743.6	732.3	714.9	712.5	691.9	682.3
42.5°	1182.5	1175.5	1153.3	1042.7	905.6	793.6	776.2	746.3	755.4	743.1	734.7
45°	1288.5	1289.0	1265.3	1167.1	1012.8	885.8	862.4	815.6	837.3	832.6	837.5
47.5°	1382.4	1381.2	1372.8	1287.8	1145.8	1004.6	974.4	920.1	957.2	974.1	1011.1
50°	1473.4	1472.7	1473.2	1424.7	1300.3	1145.8	1112.5	1055.5	1139.3	1198.0	1264.1
52.5°	1603.8	1607.9	1578.7	1565.9	1488.2	1312.6	1275.9	1217.0	1354.4	1446.8	1576.0
55°	1734.7	1731.3	1708.3	1721.6	1684.7	1510.1	1471.7	1424.9	1593.9	1695.0	1889.1
57.5°	1811.6	1812.9	1836.3	1901.2	1927.3	1756.3	1721.6	1685.4	1863.1	1934.8	2167.7
60°	1880.9	1886.5	1953.9	2076.5	2147.2	2058.9	2028.0	1992.7	2110.0	2138.5	2409.7
62.5°	1902.7	1919.8	2037.4	2220.9	2361.6	2400.3	2361.8	2284.2	2345.2	2334.1	2573.6
65°	1794.2	1817.7	2028.4	2274.9	2553.0	2724.2	2699.9	2555.5	2545.6	2478.7	2600.4
67.5°	1508.9	1532.3	1802.9	2161.5	2632.3	3004.8	2980.4	2753.5	2667.3	2492.2	2397.6
70°	1104.0	1118.8	1377.6	1819.8	2473.2	3099.0	3107.4	2850.0	2623.8	2308.5	1968.6
72.5°	636.2	668.8	850.0	1280.3	2020.5	2860.9	2919.6	2649.2	2349.1	1925.9	1376.4
75°	273.5	274.3	393.1	706.2	1368.4	2299.6	2356.3	2196.0	1844.7	1331.7	734.9
77.5°	130.1	132.6	172.9	315.3	753.2	1588.8	1741.9	1551.4	1179.8	639.8	277.7
80°	84.5	86.2	105.8	156.4	369.4	921.3	1028.0	895.0	520.5	228.6	119.7
82.5°	51.2	51.7	70.7	95.6	203.3	417.2	491.8	388.4	222.1	136.9	70.5
85°	31.2	31.4	43.0	59.1	123.4	144.2	148.0	146.8	130.4	89.6	37.7
87.5°	15.0	15.4	22.2	28.0	48.5	44.6	42.3	49.0	61.5	48.3	16.2
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°	452.9	452.9	452.9	452.9	452.9	452.9	452.9	452.9	452.9	452.9	452.9
2.5°	452.4	451.7	450.0	449.3	448.8	449.1	448.8	448.8	449.1	449.1	449.1
5°	454.6	453.4	450.8	450.8	452.2	455.5	458.7	461.1	463.8	463.5	463.5
7.5°	464.0	461.8	458.7	459.7	463.3	468.6	474.2	479.5	484.8	485.3	485.0
10°	477.8	475.6	472.2	473.4	479.2	487.2	494.2	501.9	507.7	509.4	509.0
12.5°	493.4	489.1	486.2	489.6	498.8	509.4	516.2	521.9	526.1	528.4	527.5
15°	509.4	505.3	501.9	509.0	520.1	529.9	533.3	534.2	535.0	537.5	536.9
17.5°	524.8	519.3	518.1	527.3	537.9	542.2	540.3	536.2	533.1	535.0	534.8
20°	538.6	534.2	533.8	542.9	547.1	542.9	534.8	527.5	521.9	522.4	522.2
22.5°	551.6	548.3	548.7	552.6	546.1	532.1	518.6	508.7	502.7	503.9	504.6
25°	566.1	562.7	564.0	557.7	536.2	511.8	492.3	483.8	481.4	483.8	485.5
27.5°	585.0	582.8	582.1	558.0	518.6	481.9	459.7	456.6	458.7	464.0	466.7
30°	605.3	605.3	601.4	553.8	494.5	445.9	426.6	427.0	434.6	442.1	444.7
32.5°	624.8	628.9	616.8	542.7	463.3	410.9	396.2	396.7	403.2	412.3	414.8
35°	641.0	652.8	630.2	522.4	426.6	381.5	370.4	363.9	364.1	371.1	373.0
37.5°	663.2	685.2	637.8	492.3	387.5	356.3	343.8	332.5	324.9	322.0	322.0
40°	701.8	734.1	639.8	447.6	350.5	332.5	314.6	301.1	286.6	273.5	271.2
42.5°	767.3	808.1	636.0	396.2	317.3	306.2	288.8	272.1	252.0	233.7	232.2
45°	883.1	904.1	625.5	342.8	287.5	280.8	263.9	245.8	224.6	208.1	206.9
47.5°	1068.8	1039.1	611.8	295.5	260.5	258.5	245.5	224.6	203.3	191.9	190.7
50°	1339.9	1251.5	609.9	261.2	238.7	239.8	229.1	209.8	191.2	181.8	180.3
52.5°	1666.3	1508.2	622.6	237.1	219.7	223.3	218.0	200.1	183.7	175.8	174.3
55°	1983.1	1739.0	630.4	218.2	201.9	208.6	209.3	194.3	179.4	171.4	170.5
57.5°	2240.2	1912.8	596.1	201.1	186.4	196.8	202.1	191.0	177.2	171.2	170.2
60°	2419.1	1994.9	498.5	185.9	175.0	187.4	199.4	191.2	182.5	183.2	183.7
62.5°	2476.1	1958.4	374.0	174.5	167.3	184.2	203.7	201.1	192.1	197.7	198.7
65°	2381.7	1807.8	271.2	165.6	160.5	186.4	216.8	208.4	188.8	192.9	192.9
67.5°	2065.6	1557.5	211.0	157.4	152.8	190.5	229.8	207.7	180.8	185.6	181.3
70°	1638.6	1204.7	175.8	148.2	144.6	184.5	231.1	200.1	171.4	172.4	164.2
72.5°	1087.4	792.1	151.1	139.5	132.1	165.8	221.1	190.5	162.2	156.7	148.5
75°	532.8	394.9	131.9	128.6	115.6	144.4	207.7	181.3	152.4	143.7	139.1
77.5°	206.4	168.0	112.5	114.9	100.7	127.2	189.8	168.3	139.3	127.5	123.9
80°	100.2	95.4	92.2	95.8	82.8	108.4	173.4	156.9	127.2	114.2	108.9
82.5°	62.3	58.9	70.7	74.6	63.7	99.0	164.4	147.3	112.0	94.7	90.3
85°	31.6	33.8	47.3	51.0	45.6	78.7	135.5	110.6	80.9	67.1	67.6
87.5°	12.1	16.2	24.9	26.8	24.4	41.5	74.6	64.4	51.9	35.2	32.6
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)