

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: P648212

Luminaire Tested: **GALN-SA1B-835-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648212  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-835-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3708.3 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

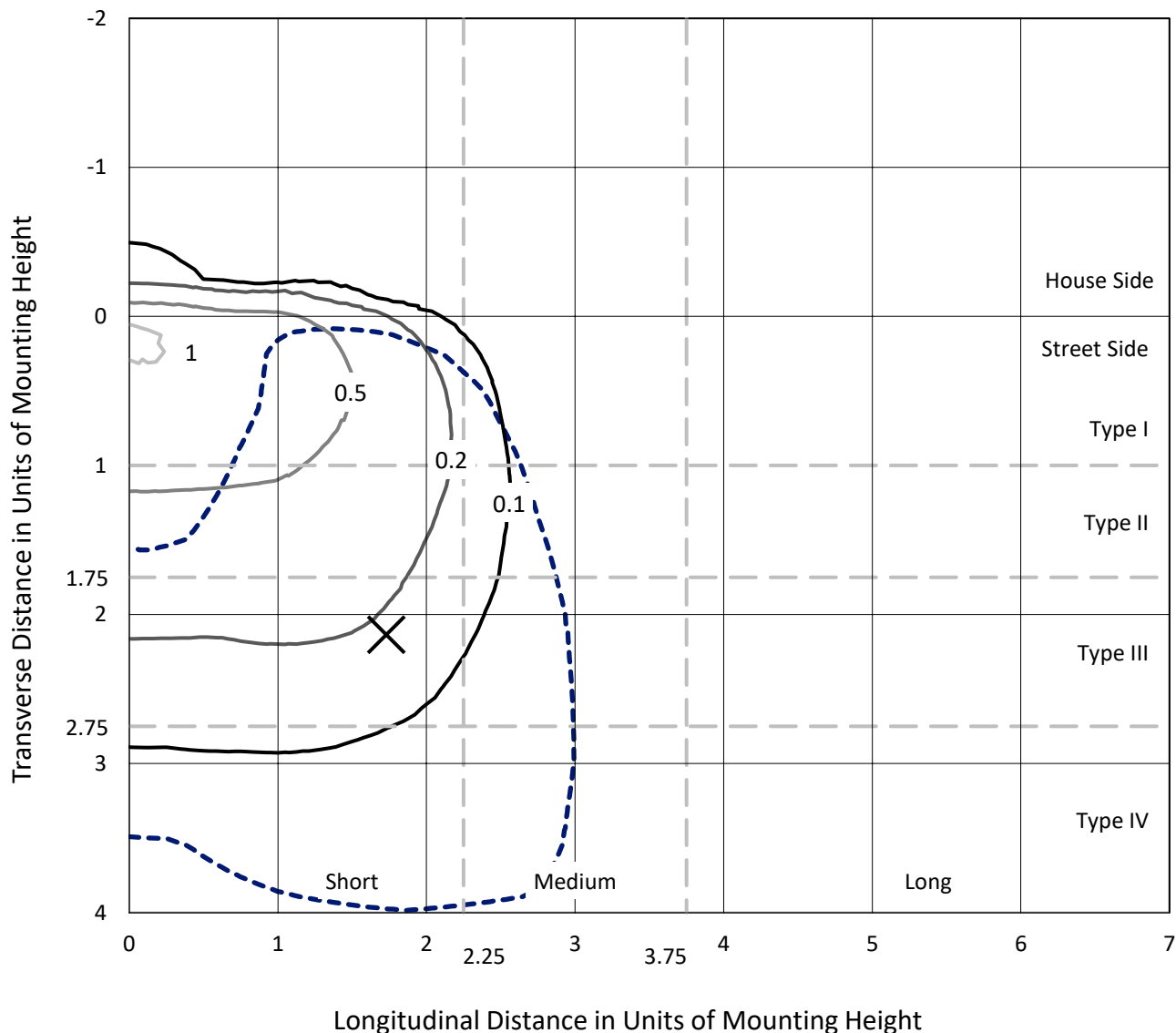
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

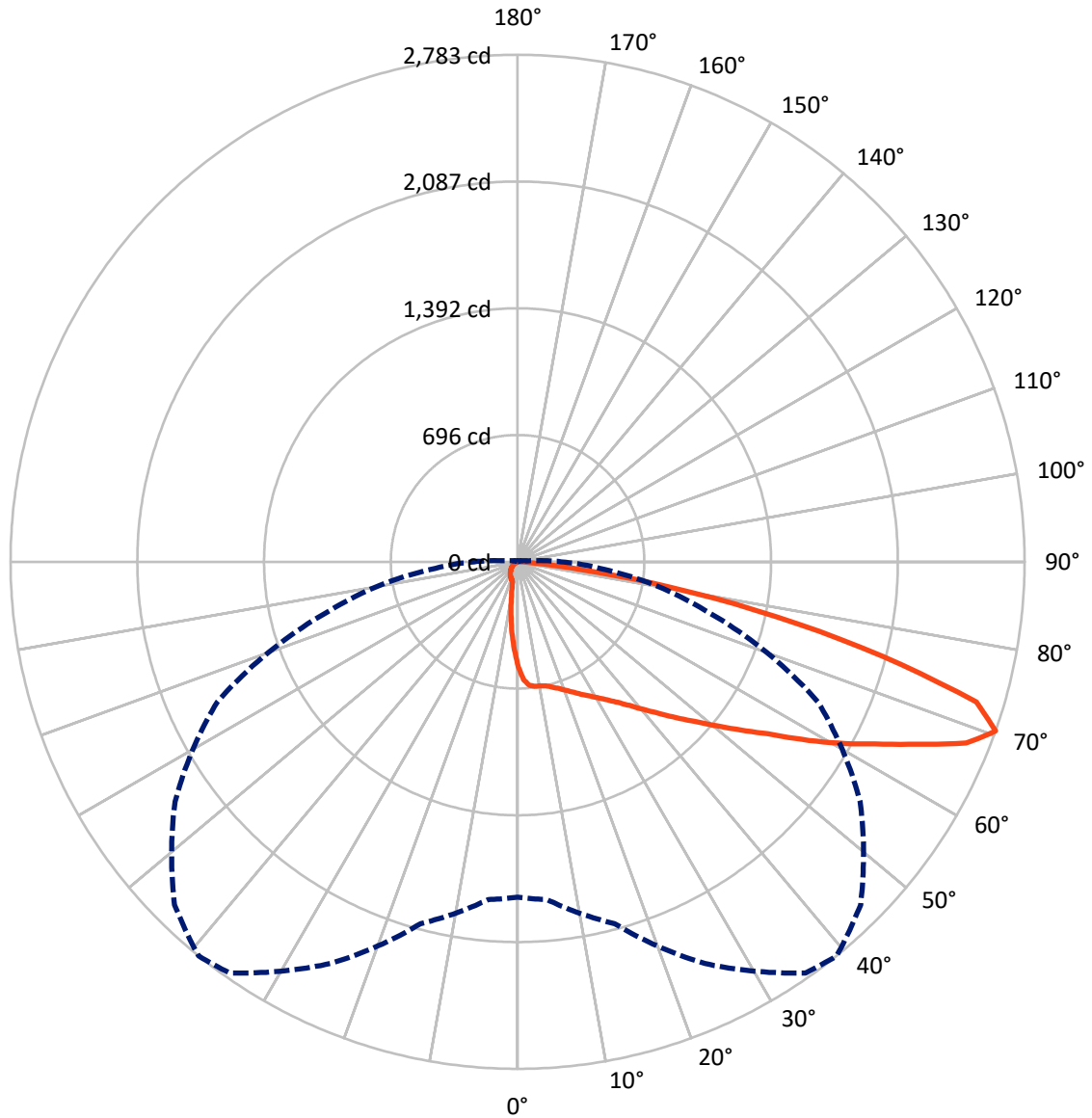
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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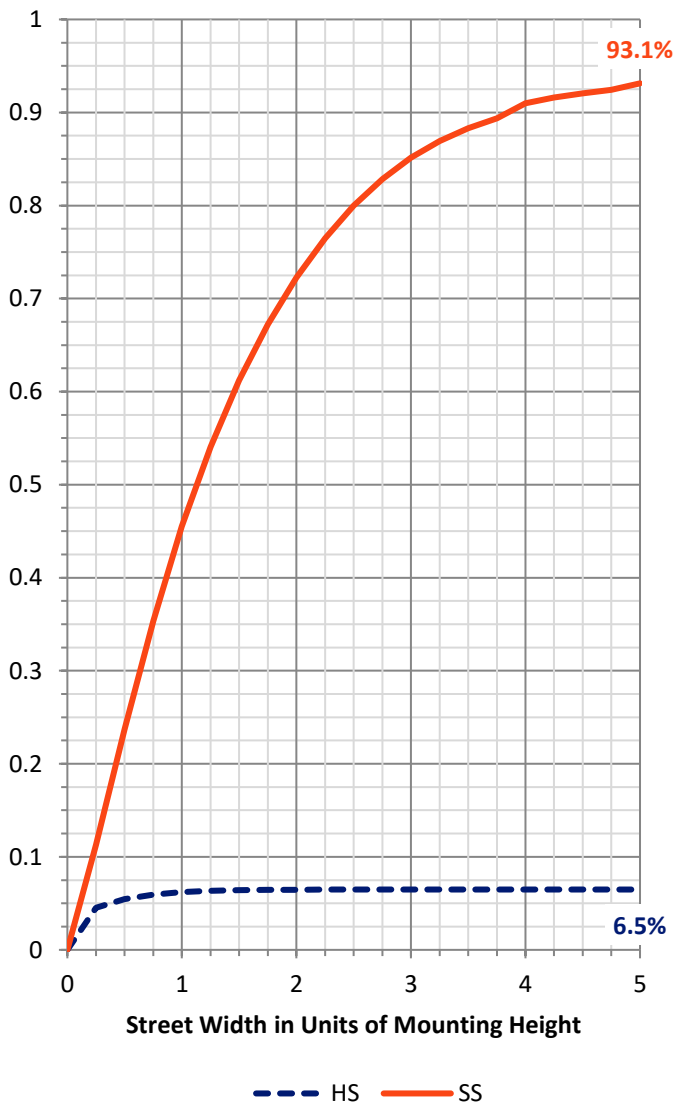
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	241.8	0.0	241.8
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	3466.5	0.0	3466.5
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	3708.3	0.0	3708.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.4	1.3
10°-20°	128.3	3.5
20°-30°	214.9	5.8
30°-40°	333.2	9.0
40°-50°	528.1	14.2
50°-60°	774.0	20.9
60°-70°	992.1	26.8
70°-80°	623.4	16.8
80°-90°	64.9	1.8
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°	3708.3	100.0
0°-180°	3708.3	100.0

**Coefficient of Utilization**



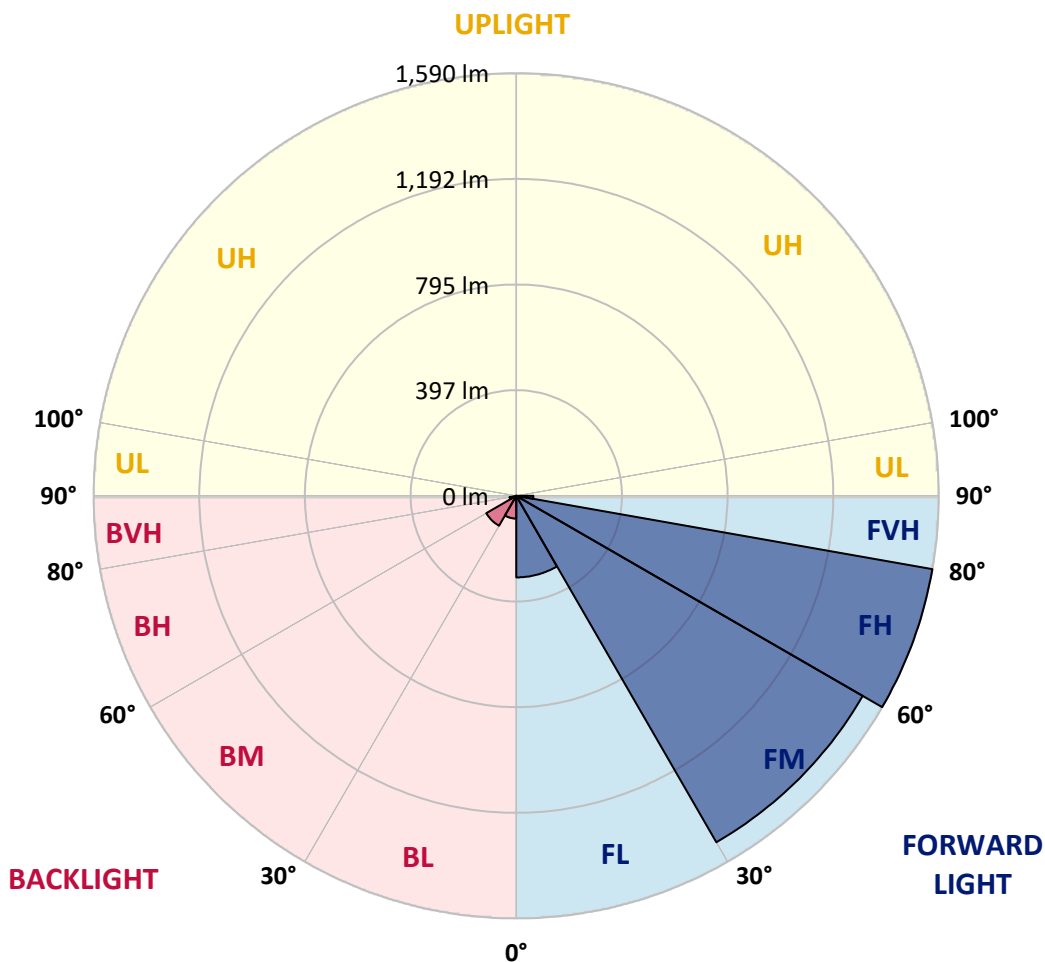
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	306.8	8.3			
FM (30°-60°)	1505.2	40.6			
FH (60°-80°)	1590.0	42.9			G1/1800
FVH (80°-90°)	64.5	1.7			G1/100
BL (0°-30°)	85.6	2.3	B0/110		
BM (30°-60°)	130.1	3.5	B0/220		
BH (60°-80°)	25.6	0.7	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	578.6	578.6	578.6	578.6	578.6	578.6	578.6	578.6	578.6	578.6	578.6
2.5°	668.6	666.3	663.4	659.8	649.9	648.2	642.1	629.5	614.3	601.8	584.6
5°	700.2	701.5	699.2	693.0	685.8	681.5	674.1	654.4	634.7	609.5	581.4
7.5°	707.4	709.9	707.2	701.3	694.2	689.7	683.8	666.8	643.9	615.3	576.6
10°	706.7	709.7	708.0	702.4	696.7	692.5	686.0	672.6	654.1	624.0	578.1
12.5°	705.5	709.5	709.2	706.4	701.7	698.5	694.5	682.5	665.3	636.7	586.3
15°	702.0	707.0	711.4	713.7	713.9	713.9	708.9	696.2	679.8	653.4	597.0
17.5°	703.4	709.2	720.4	726.9	731.4	730.9	725.6	711.9	693.7	670.6	608.3
20°	712.7	720.4	736.1	749.1	753.6	752.1	745.1	729.1	708.5	685.3	619.3
22.5°	735.4	742.4	762.0	777.2	780.5	776.5	766.5	744.9	726.2	701.3	632.4
25°	769.2	777.4	795.7	807.1	807.1	804.9	790.9	765.5	746.0	723.4	649.7
27.5°	810.4	817.4	835.3	845.5	839.5	833.0	819.1	788.4	769.8	751.3	670.3
30°	852.0	856.4	875.4	879.9	873.7	865.4	850.5	819.8	803.4	789.2	700.2
32.5°	891.4	901.1	916.7	915.8	907.3	903.3	889.6	857.0	847.8	846.3	742.1
35°	930.8	938.2	952.1	955.7	948.1	947.4	937.5	913.3	913.5	923.2	807.4
37.5°	964.6	971.3	987.8	995.5	997.0	1000.8	996.8	980.8	1003.5	1030.1	893.9
40°	993.0	1002.5	1023.5	1036.8	1052.4	1066.1	1066.8	1070.3	1115.9	1161.7	1006.7
42.5°	1015.2	1028.4	1058.8	1083.8	1119.1	1136.5	1150.5	1169.7	1246.5	1315.0	1139.8
45°	1044.1	1059.3	1097.2	1136.3	1191.6	1220.3	1239.7	1291.1	1399.9	1493.4	1276.4
47.5°	1092.0	1100.0	1138.6	1195.6	1268.4	1309.3	1347.2	1424.9	1564.7	1648.4	1390.0
50°	1153.5	1158.8	1187.9	1267.1	1361.3	1415.1	1484.2	1575.6	1735.6	1776.9	1454.3
52.5°	1221.6	1223.3	1245.2	1345.9	1465.5	1533.3	1610.6	1723.4	1874.9	1868.7	1496.9
55°	1300.6	1298.1	1316.7	1431.3	1588.9	1666.3	1756.3	1874.7	1995.8	1933.7	1521.3
57.5°	1391.0	1384.3	1402.4	1544.7	1746.8	1839.5	1931.0	2005.3	2089.4	1988.3	1533.0
60°	1485.7	1472.2	1493.9	1672.1	1933.0	2020.9	2097.0	2116.8	2188.2	2031.7	1512.8
62.5°	1561.1	1561.5	1601.8	1807.6	2124.4	2201.3	2241.7	2259.7	2273.1	2022.2	1406.7
65°	1679.1	1683.1	1747.6	1995.8	2345.9	2412.7	2440.3	2382.0	2276.9	1904.6	1247.2
67.5°	1800.7	1813.3	1931.5	2255.0	2601.8	2655.6	2620.0	2405.7	2175.2	1636.2	945.7
70°	1840.3	1861.2	2055.8	2433.3	2755.3	2783.2	2662.6	2295.3	1818.4	1093.9	476.0
72.5°	1686.3	1720.2	1984.3	2368.3	2657.3	2633.2	2382.3	1925.0	1156.0	415.4	145.2
75°	1189.1	1204.1	1649.2	1964.6	2137.3	2068.8	1812.1	1241.0	475.4	116.6	49.9
77.5°	614.0	606.7	980.8	1303.5	1524.3	1453.2	1186.6	642.5	180.2	48.6	30.9
80°	317.5	322.7	424.4	683.0	930.4	856.2	632.7	297.8	95.9	26.9	23.6
82.5°	177.9	166.9	244.0	298.2	435.1	341.2	242.7	210.8	41.9	16.2	22.4
85°	32.4	33.9	133.8	161.2	151.0	95.9	78.2	140.8	12.2	9.0	15.7
87.5°	0.5	0.5	25.9	46.4	29.4	13.5	24.7	20.2	2.5	3.5	2.7
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°	578.6	578.6	578.6	578.6	578.6	578.6	578.6	578.6	578.6	578.6	578.6
2.5°	575.9	566.4	548.7	531.3	509.1	490.9	478.7	466.0	453.0	454.1	457.0
5°	565.9	549.4	514.6	477.7	442.3	410.4	379.1	350.9	339.4	328.9	329.4
7.5°	555.9	532.8	481.7	423.8	370.3	315.9	276.6	244.2	227.0	214.1	210.3
10°	551.5	520.8	451.6	372.0	296.1	236.7	186.1	159.7	139.3	132.8	134.6
12.5°	553.4	514.8	424.4	325.2	234.7	165.0	129.6	116.1	111.7	110.9	110.4
15°	557.2	510.6	397.7	273.3	172.4	122.6	108.9	106.4	105.9	105.4	105.6
17.5°	562.2	506.8	369.3	224.8	132.3	107.1	103.2	101.9	101.6	101.6	101.6
20°	567.1	502.6	337.6	181.4	110.4	101.2	98.7	98.0	97.7	97.7	97.4
22.5°	572.9	498.8	305.5	142.5	101.6	96.9	94.7	94.2	94.0	93.7	93.7
25°	581.1	494.2	271.4	116.6	96.2	92.9	90.7	90.2	90.0	88.9	89.2
27.5°	592.1	490.6	236.2	100.7	91.2	87.9	86.4	85.7	85.2	84.5	84.7
30°	607.1	487.7	198.9	91.9	85.5	82.8	81.2	80.7	80.3	79.5	79.5
32.5°	633.0	488.9	159.5	85.0	80.3	77.0	75.5	75.0	74.5	73.8	73.8
35°	671.8	496.1	127.6	79.0	74.0	70.8	69.3	69.3	68.5	67.5	67.3
37.5°	735.4	514.6	102.4	73.3	68.0	65.1	63.3	62.8	62.0	60.5	60.3
40°	810.4	543.2	86.2	67.5	62.6	59.6	58.1	56.5	54.6	53.1	52.9
42.5°	904.6	572.6	74.8	61.8	57.3	54.6	52.9	50.3	47.4	45.3	45.1
45°	1002.7	599.5	67.0	56.5	52.3	50.1	48.1	44.1	40.4	37.9	37.7
47.5°	1076.0	604.6	60.8	51.6	48.1	45.9	43.1	38.1	33.1	30.9	30.1
50°	1110.6	580.4	54.3	46.6	43.8	41.3	37.9	32.2	26.7	24.0	23.4
52.5°	1122.8	538.5	49.1	42.1	39.6	36.6	32.4	25.9	20.9	18.2	17.9
55°	1117.9	485.7	44.3	37.9	34.6	31.2	26.9	20.7	15.4	13.2	12.7
57.5°	1091.7	418.4	39.6	33.7	29.7	26.2	21.5	15.4	10.5	8.5	8.2
60°	1021.2	326.7	34.9	28.9	25.1	21.5	16.9	11.0	6.5	4.7	4.7
62.5°	902.1	242.5	30.4	24.2	21.2	17.2	12.0	7.0	3.5	2.5	2.3
65°	753.8	178.9	25.4	20.4	17.7	13.5	8.5	4.2	1.7	0.8	0.5
67.5°	526.0	110.4	21.2	16.7	14.5	9.7	5.2	1.7	0.8	0.0	0.0
70°	239.0	52.6	16.2	12.7	11.0	7.0	2.7	1.0	0.5	0.0	0.0
72.5°	74.2	27.6	11.4	9.2	7.4	4.5	1.5	0.8	0.5	0.0	0.0
75°	34.4	17.7	7.2	5.0	4.2	2.3	1.0	0.5	0.2	0.0	0.0
77.5°	25.7	13.7	4.2	2.7	2.3	1.5	0.8	0.5	0.2	0.0	0.0
80°	22.4	7.0	2.5	1.7	1.3	1.0	0.5	0.2	0.0	0.0	0.0
82.5°	20.2	3.5	1.5	1.0	0.8	0.5	0.2	0.2	0.0	0.0	0.0
85°	11.0	2.0	1.0	0.8	0.5	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	2.0	1.0	0.8	0.5	0.5	0.2	0.2	0.2	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)