

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: P652170

Luminaire Tested: **GALN-SA1B-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4005.7 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

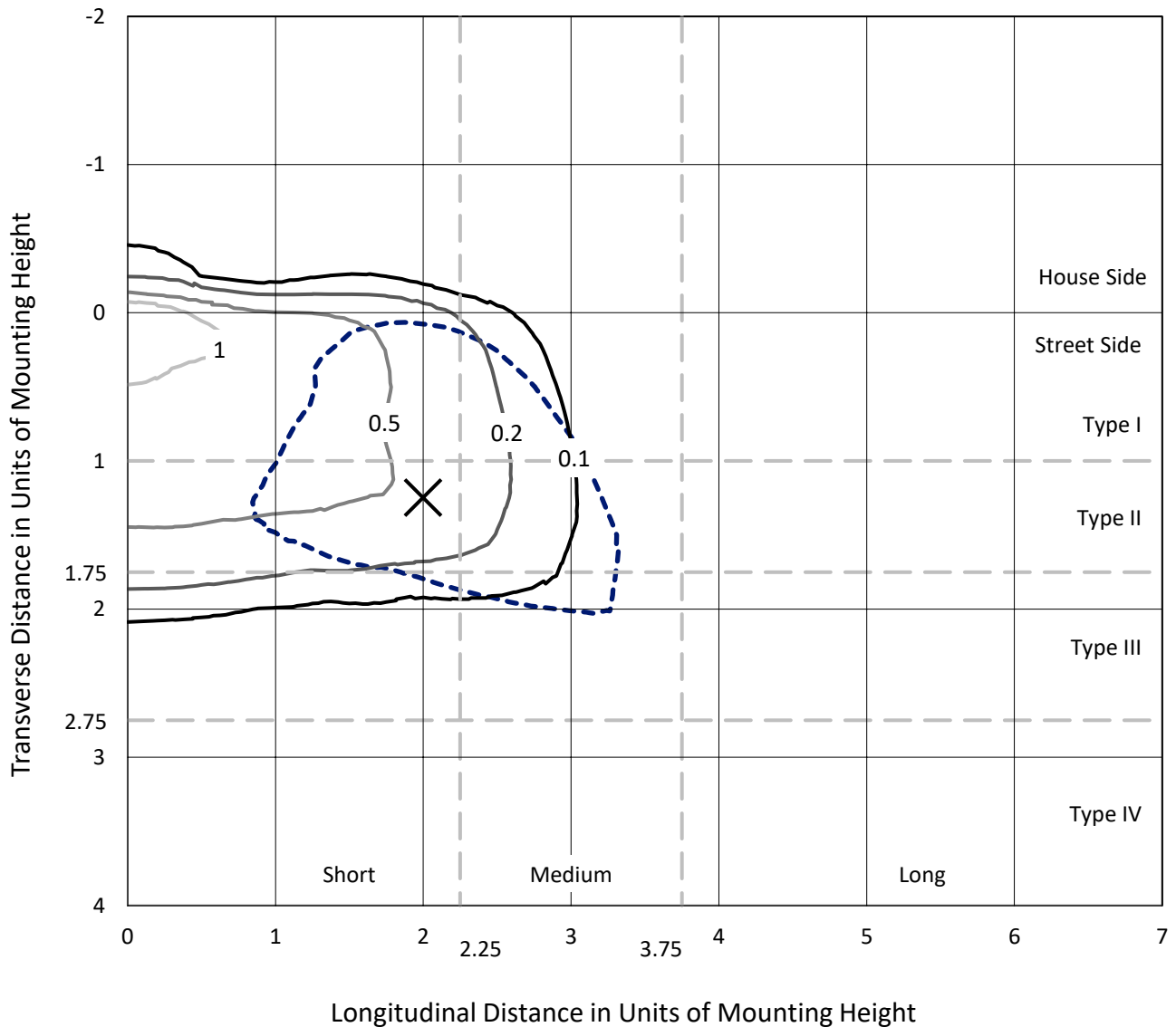
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

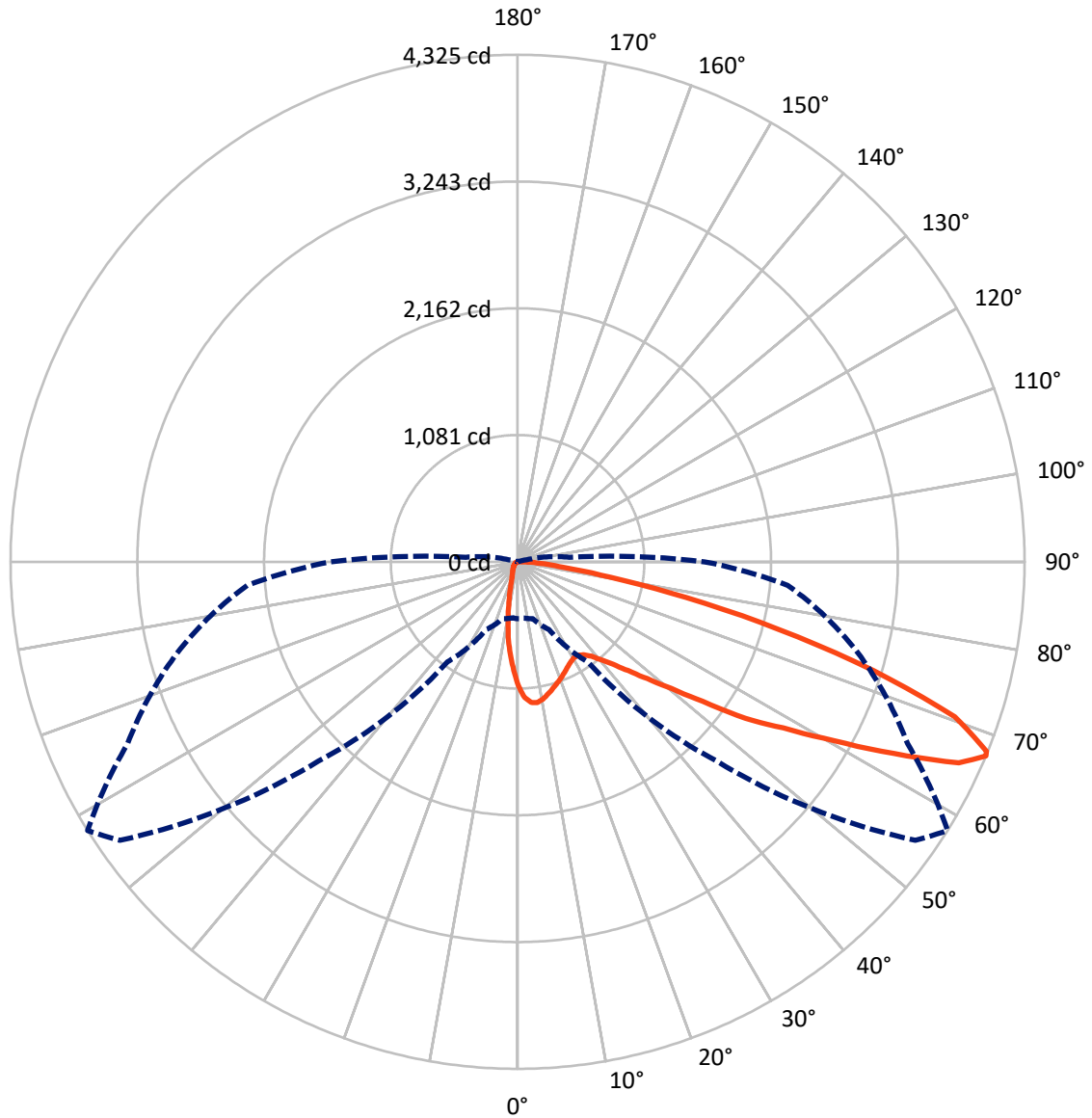
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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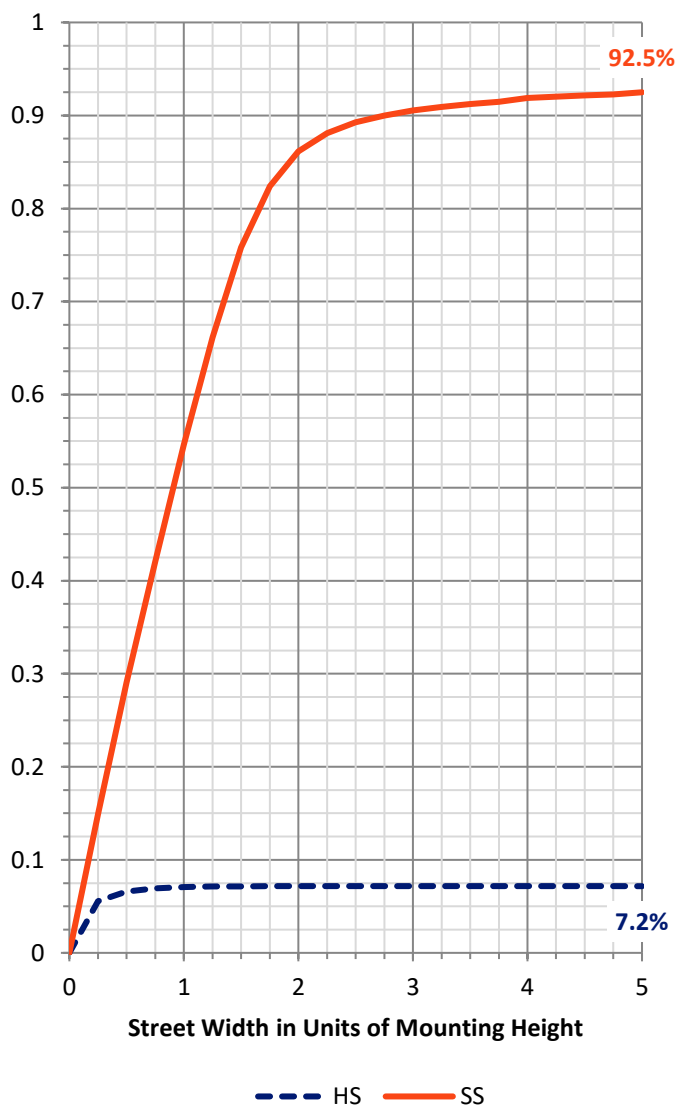
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	289.1	0.0	289.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	3716.6	0.0	3716.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	4005.7	0.0	4005.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	2.2
10°-20°	186.1	4.6
20°-30°	252.2	6.3
30°-40°	349.8	8.7
40°-50°	557.8	13.9
50°-60°	964.3	24.1
60°-70°	1101.5	27.5
70°-80°	459.2	11.5
80°-90°	48.7	1.2
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°	4005.7	100.0
0°-180°	4005.7	100.0

Coefficient of Utilization

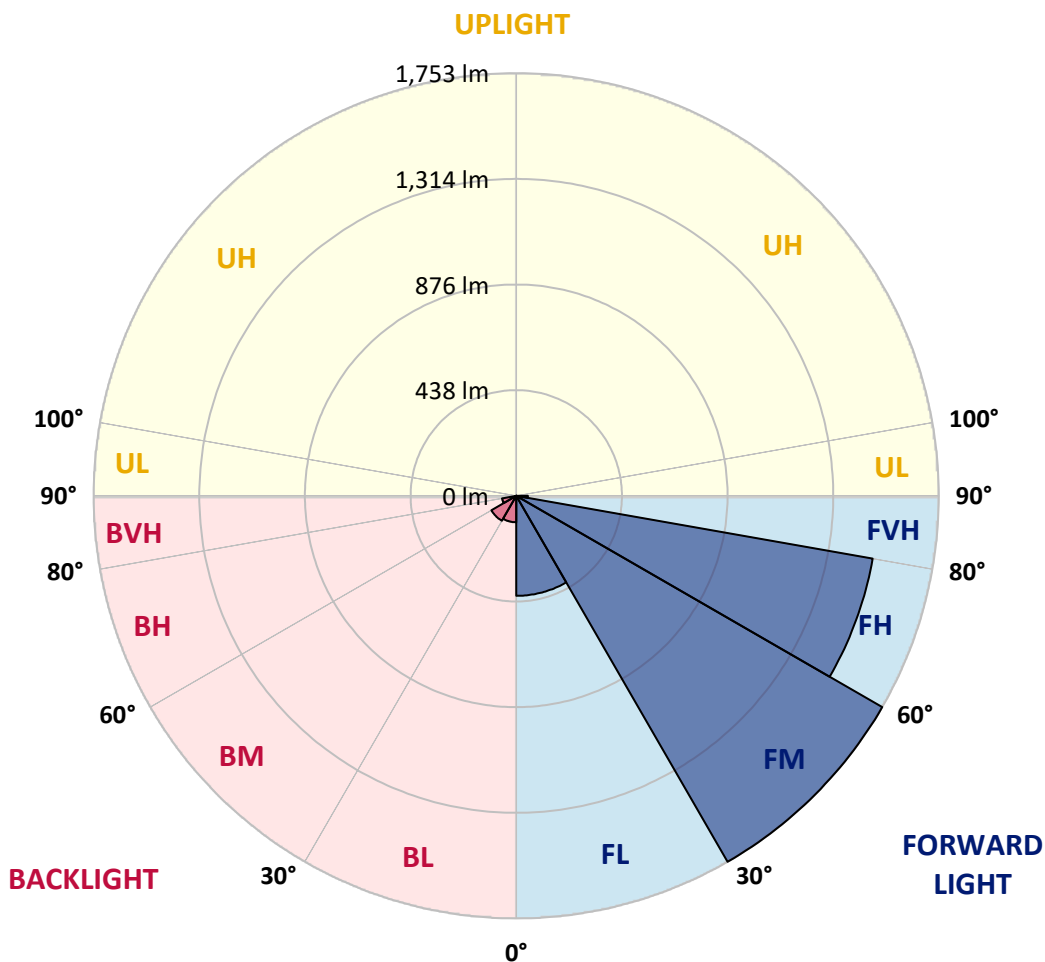


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	414.7	10.4			
FM (30°-60°)	1752.7	43.8			
FH (60°-80°)	1500.9	37.5			G1/1800
FVH (80°-90°)	48.3	1.2			G1/100
BL (0°-30°)	109.8	2.7	B0/110		
BM (30°-60°)	119.2	3.0	B0/220		
BH (60°-80°)	59.8	1.5	B0/110		G0/110
BVH (80°-90°)	0.4	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8
2.5°	1232.4	1234.3	1227.3	1221.6	1207.3	1191.7	1171.1	1160.1	1141.4	1108.9	1073.1
5°	1261.2	1263.7	1262.6	1261.2	1255.7	1240.6	1214.4	1204.8	1177.2	1124.5	1059.7
7.5°	1197.1	1205.9	1206.9	1217.3	1227.3	1228.6	1218.7	1211.5	1186.1	1124.2	1035.9
10°	1111.9	1117.8	1126.4	1138.5	1162.3	1182.0	1191.7	1190.6	1175.9	1115.9	1008.1
12.5°	1026.0	1029.2	1042.3	1062.9	1092.1	1125.8	1151.6	1156.6	1156.9	1106.0	984.8
15°	952.1	950.8	960.9	984.8	1025.8	1068.0	1114.1	1122.1	1134.9	1096.4	963.1
17.5°	888.9	895.9	897.5	923.8	961.5	1016.3	1075.0	1089.2	1114.8	1088.1	945.2
20°	849.8	853.6	857.1	871.8	905.8	963.6	1038.3	1057.9	1096.2	1080.6	925.1
22.5°	838.4	840.7	837.8	842.3	866.5	917.9	998.4	1024.4	1078.2	1073.6	908.8
25°	847.2	849.6	842.7	837.3	845.6	880.7	959.9	991.5	1063.8	1072.3	896.4
27.5°	868.6	873.1	863.5	853.9	849.1	860.6	929.6	966.3	1053.9	1078.8	890.8
30°	902.1	904.7	897.5	885.7	874.7	863.3	913.8	948.9	1051.2	1093.7	890.3
32.5°	938.5	944.1	940.1	932.3	918.1	890.8	918.4	949.4	1057.6	1115.4	897.0
35°	983.5	989.9	993.6	992.0	973.8	939.8	947.3	973.5	1074.7	1155.3	915.2
37.5°	1027.6	1033.3	1054.4	1061.6	1045.5	1013.4	1003.5	1020.9	1112.5	1207.5	948.1
40°	1078.2	1085.7	1115.4	1143.0	1135.2	1101.5	1083.3	1097.8	1170.3	1286.1	1010.5
42.5°	1126.7	1140.1	1185.3	1234.0	1241.2	1203.5	1191.4	1196.2	1255.9	1399.4	1097.5
45°	1195.5	1208.0	1266.4	1332.5	1366.5	1337.0	1324.7	1323.9	1373.4	1558.7	1238.5
47.5°	1294.7	1306.0	1374.8	1440.1	1500.6	1504.6	1481.3	1489.3	1521.2	1745.0	1411.5
50°	1416.6	1443.1	1488.3	1556.3	1637.1	1702.4	1709.7	1698.9	1726.2	1960.7	1619.2
52.5°	1593.4	1603.6	1645.2	1701.1	1795.9	1906.6	1992.6	1977.9	1969.3	2166.3	1829.0
55°	1725.5	1739.1	1803.6	1880.4	2019.3	2165.5	2351.8	2356.9	2248.7	2363.9	2034.3
57.5°	1685.5	1706.5	1804.1	1958.6	2264.0	2531.2	2669.8	2673.3	2507.4	2555.8	2266.2
60°	1480.7	1490.7	1630.7	1836.8	2284.9	2927.3	3120.9	3092.7	2770.4	2770.4	2470.9
62.5°	1050.1	1065.6	1179.1	1482.3	2063.5	3064.9	3661.0	3602.9	3132.9	2975.7	2593.0
65°	671.0	656.1	731.2	935.8	1537.3	2861.8	4131.3	4134.8	3473.9	3058.0	2526.4
67°	486.1	480.2	501.9	639.7	1042.3	2405.6	4141.3	4324.6	3669.9	3006.0	2313.3
67.5°	444.6	449.2	465.0	577.1	947.1	2189.0	4096.3	4313.3	3714.0	2974.7	2236.1
70°	337.0	329.3	346.4	408.2	567.8	1380.9	3523.7	3956.0	3659.1	2663.9	1786.7
72.5°	247.8	247.1	270.9	333.8	437.2	735.5	2645.2	3172.0	2989.4	2028.4	1125.0
75°	167.3	174.8	212.8	279.0	396.2	477.0	1803.4	2301.2	2075.3	1151.8	459.9
77.5°	95.3	95.8	137.1	224.0	355.7	383.8	1068.6	1466.0	1098.5	383.1	136.5
80°	41.2	45.2	68.0	162.7	294.9	339.9	612.7	805.7	444.3	81.1	44.2
82.5°	15.2	17.9	29.9	100.1	215.2	280.0	370.2	384.7	150.7	28.7	27.6
85°	0.0	0.5	10.9	46.8	112.2	125.0	247.3	228.1	66.7	13.6	17.9
87.5°	0.0	0.0	0.0	4.8	14.7	46.6	76.8	85.7	16.1	4.8	4.3
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°	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8	1061.8
2.5°	1053.9	1036.4	992.8	949.2	916.8	889.8	849.1	826.9	815.1	797.7	798.8
5°	1027.4	992.0	915.2	835.7	771.4	708.8	633.9	603.6	578.2	563.7	554.1
7.5°	988.0	935.8	822.0	716.0	617.3	507.8	425.6	370.7	333.8	320.2	307.0
10°	944.9	875.6	727.5	580.6	443.5	330.6	261.0	210.7	192.8	176.1	177.7
12.5°	905.0	820.7	640.8	458.3	310.7	210.2	163.8	143.2	137.3	135.5	135.5
15°	872.4	768.3	547.7	344.5	213.1	151.0	131.2	125.6	123.4	122.9	122.9
17.5°	837.6	718.5	463.6	254.6	155.0	126.3	119.7	115.9	115.1	114.5	114.5
20°	806.5	668.4	383.8	189.5	125.3	113.8	109.5	107.1	106.3	105.7	106.0
22.5°	777.1	623.9	308.9	143.2	110.3	103.6	99.3	96.9	95.3	93.9	94.2
25°	750.8	581.1	248.4	117.2	99.3	93.4	89.1	85.7	82.2	80.6	80.3
27.5°	732.3	543.6	193.5	100.4	89.4	83.0	77.6	73.3	68.8	66.4	65.9
30°	717.1	505.6	153.1	88.6	79.5	73.3	66.7	60.5	55.7	53.2	52.2
32.5°	707.2	469.5	120.7	79.0	71.2	63.7	56.2	50.0	44.7	42.3	41.8
35°	705.6	439.3	98.7	70.9	63.7	55.7	47.9	41.2	36.7	34.2	33.7
37.5°	717.1	416.0	82.7	64.5	57.5	48.7	40.1	34.0	29.9	28.1	27.8
40°	747.9	401.2	71.7	59.1	51.9	42.3	34.2	28.9	24.9	23.0	23.0
42.5°	806.5	401.7	64.5	54.1	46.3	36.2	29.2	24.1	20.6	19.0	18.5
45°	898.0	420.0	58.4	48.9	41.0	31.3	24.9	19.8	16.3	15.0	15.0
47.5°	1020.6	456.2	53.0	43.9	36.2	26.7	21.1	16.1	13.1	11.8	11.8
50°	1181.0	514.2	48.4	39.6	32.1	23.0	17.2	13.1	10.2	9.1	8.8
52.5°	1348.5	585.9	43.1	35.8	27.6	19.5	14.0	10.2	7.7	7.0	6.7
55°	1533.5	656.1	38.0	32.1	22.5	16.3	10.9	8.0	5.6	4.8	4.8
57.5°	1720.1	724.9	31.9	26.7	17.7	12.0	8.6	5.9	3.8	2.9	2.9
60°	1878.0	747.1	27.0	21.7	13.4	8.6	6.1	3.8	2.1	1.3	1.3
62.5°	1899.7	672.1	22.8	16.6	9.7	5.9	3.2	2.1	0.8	0.5	0.5
65°	1781.9	546.1	19.0	12.6	6.4	2.9	1.3	0.8	0.3	0.0	0.0
67°	1596.7	442.7	15.6	9.3	4.5	1.9	0.8	0.3	0.0	0.0	0.0
67.5°	1549.3	422.1	15.0	8.8	4.0	1.6	0.5	0.3	0.0	0.0	0.0
70°	1215.7	316.1	10.7	5.4	2.4	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	755.6	178.8	7.7	3.2	1.6	0.5	0.0	0.0	0.0	0.0	0.0
75°	285.6	62.7	5.4	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	88.9	23.8	3.2	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	29.9	9.1	2.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.5	3.8	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.5	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	0.5	0.3	0.0	0.0	0.0	0.0	0.0	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)