

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: P528215

Luminaire Tested: **GALN-SA3B-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10465 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G1

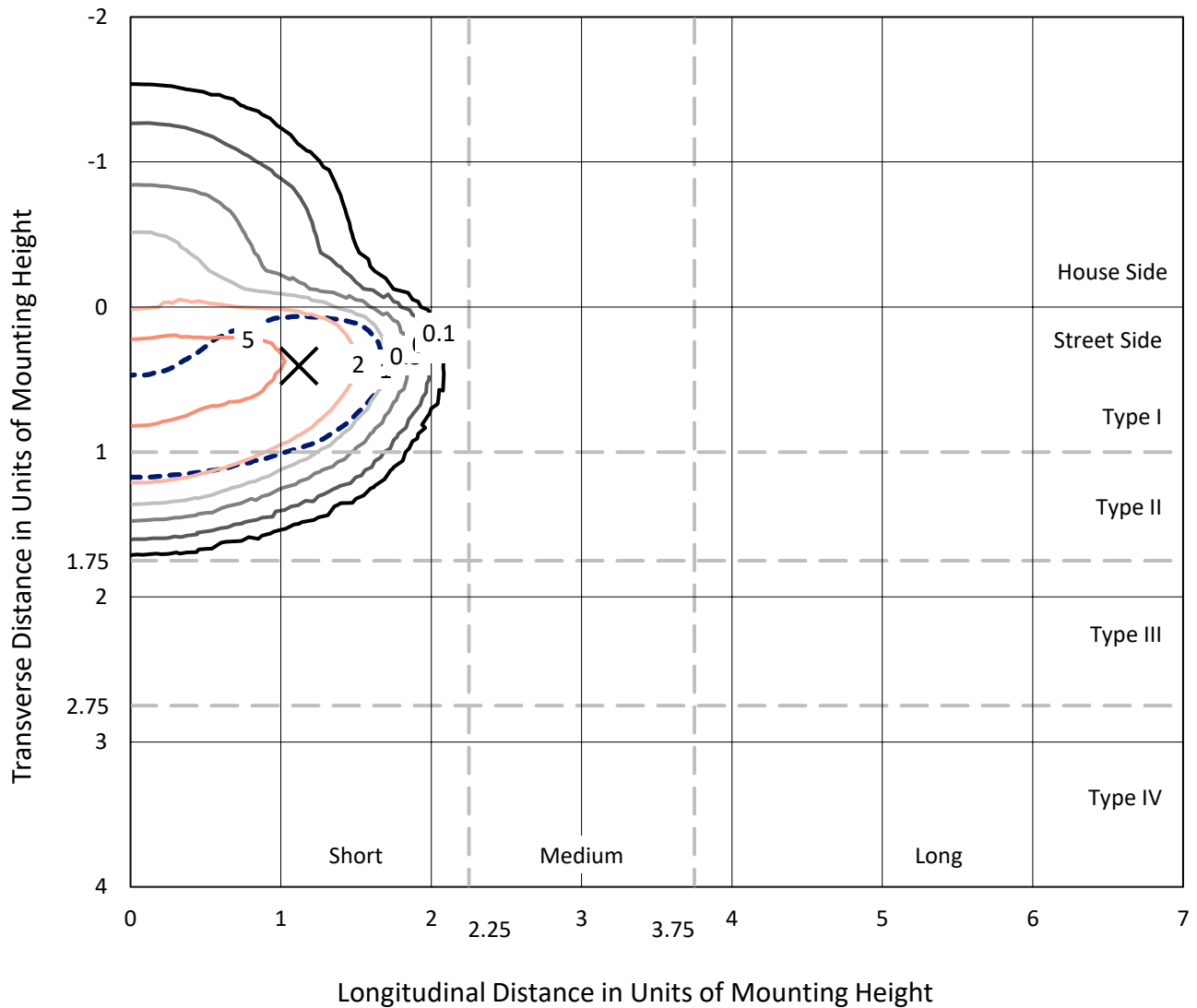
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

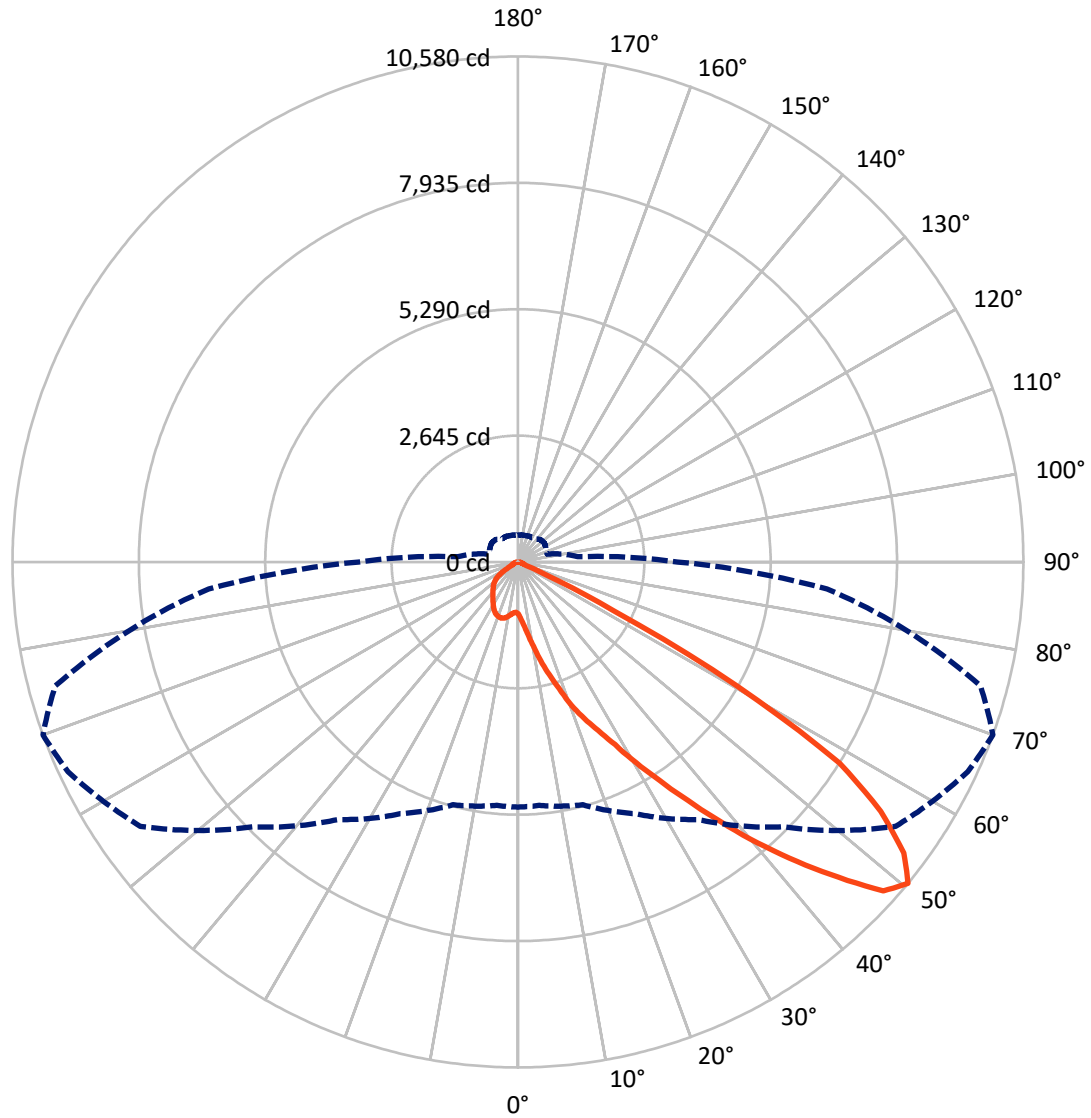
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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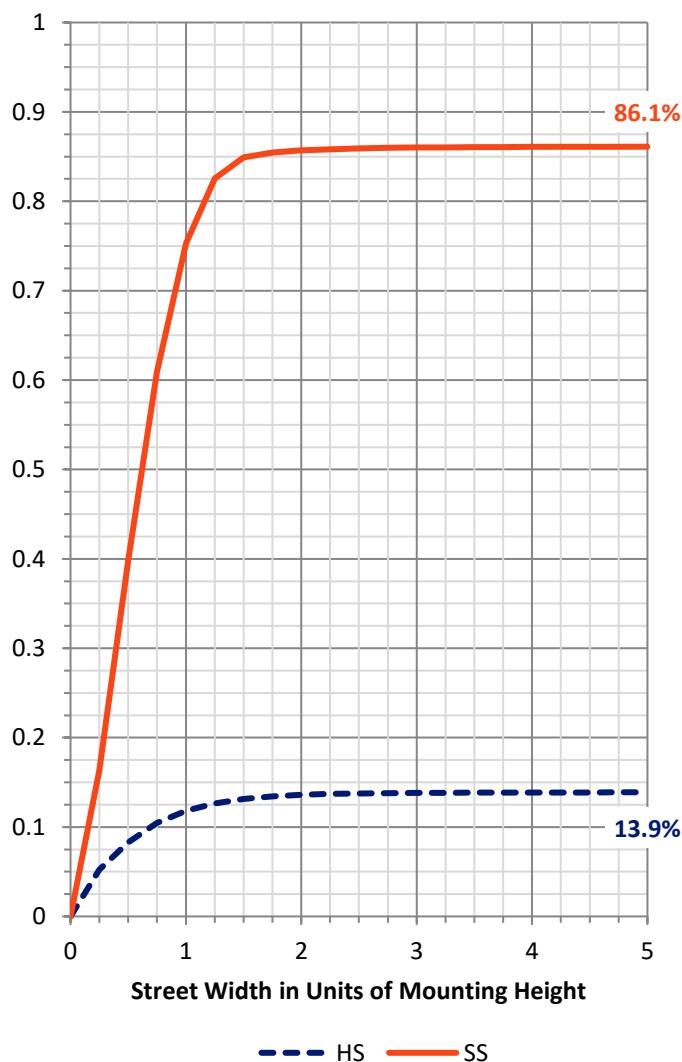
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1461.5	0.0	1461.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	9003.5	0.0	9003.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	10465.0	0.0	10465.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	1.3
10°-20°	609.7	5.8
20°-30°	1279.1	12.2
30°-40°	2204.7	21.1
40°-50°	3222.2	30.8
50°-60°	2509.6	24.0
60°-70°	425.2	4.1
70°-80°	58.4	0.6
80°-90°	15.1	0.1
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°	10465.0	100.0
0°-180°	10465.0	100.0

Coefficient of Utilization



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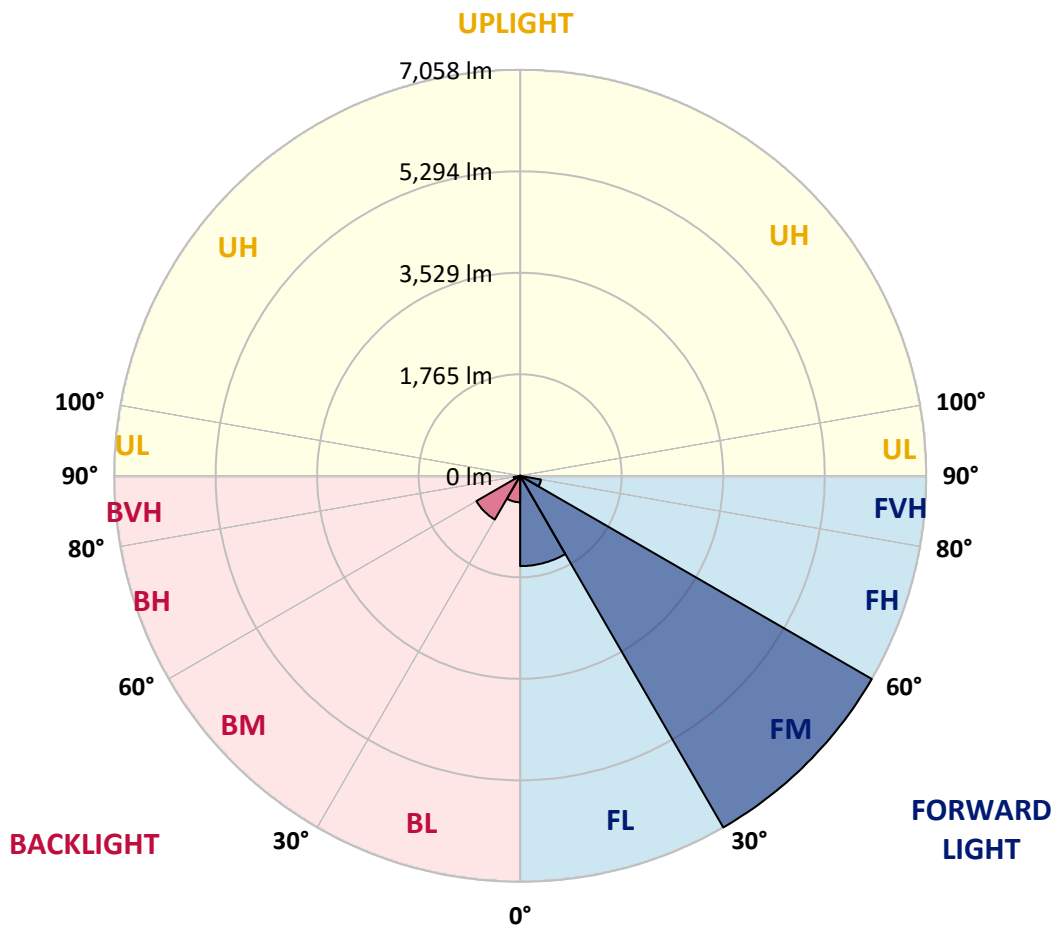
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1569.9	15.0			
FM (30°-60°)	7058.5	67.4			
FH (60°-80°)	368.2	3.5			G0/660
FVH (80°-90°)	7.0	0.1			G0/10
BL (0°-30°)	459.9	4.4	B1/500		
BM (30°-60°)	878.0	8.4	B1/1000		
BH (60°-80°)	115.4	1.1	B1/500		G1/500
BVH (80°-90°)	8.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1084.0	1084.0	1084.0	1084.0	1084.0	1084.0	1084.0	1084.0	1084.0	1084.0	1084.0
2.5°	1419.5	1409.2	1386.8	1345.5	1328.3	1287.0	1262.9	1216.5	1187.2	1154.5	1118.4
5°	1999.3	1946.0	1913.3	1866.8	1730.9	1646.6	1507.2	1388.5	1333.5	1273.2	1190.6
7.5°	2598.1	2563.7	2518.9	2419.1	2326.2	2150.7	1911.6	1650.0	1538.2	1435.0	1271.5
10°	3093.6	2997.3	2992.1	2918.1	2816.6	2606.7	2319.3	1994.2	1794.6	1643.2	1386.8
12.5°	3439.4	3351.7	3391.3	3382.7	3288.0	3095.3	2763.3	2333.1	2124.9	1889.2	1505.5
15°	3754.3	3718.2	3706.1	3695.8	3658.0	3515.2	3217.5	2746.1	2444.9	2161.1	1639.7
17.5°	4062.3	3969.4	4014.1	4022.7	4019.3	3890.2	3611.5	3138.3	2783.9	2448.4	1780.8
20°	4335.9	4344.5	4284.3	4272.2	4261.9	4256.7	3984.9	3527.2	3200.3	2749.5	1964.9
22.5°	4686.9	4626.7	4680.0	4645.6	4578.5	4537.2	4329.0	3871.3	3561.6	3112.5	2152.5
25°	5101.5	5149.7	5024.1	5010.3	4936.4	4793.5	4606.0	4256.7	3909.2	3449.8	2355.5
27.5°	5612.5	5528.2	5495.5	5419.8	5285.6	5225.4	5005.2	4654.2	4329.0	3804.2	2551.6
30°	6051.3	6028.9	5865.5	5776.0	5659.0	5657.3	5349.3	5192.7	4876.1	4360.0	2821.8
32.5°	6409.2	6311.1	6250.9	6188.9	6094.3	6120.1	5860.3	5777.7	5459.4	4876.1	3140.1
35°	6648.3	6577.8	6541.7	6447.0	6419.5	6534.8	6426.4	6392.0	6130.4	5602.2	3513.4
37.5°	6724.0	6746.4	6739.5	6620.8	6679.3	6990.7	7130.1	7040.6	6903.0	6367.9	3917.8
40°	6791.1	6806.6	6772.2	6911.6	7078.5	7432.9	7937.1	7789.1	7737.5	7143.9	4480.4
42.5°	6829.0	6817.0	6817.0	7057.8	7310.8	8023.1	8716.5	8618.4	8578.8	7969.7	5130.8
45°	6665.5	6548.5	6674.1	7001.1	7510.3	8313.9	9339.3	9475.3	9418.5	8952.2	5891.3
47.5°	6054.7	6127.0	6197.5	6634.6	7267.7	8224.4	9721.3	10184.1	10289.1	9778.1	6390.2
50°	5130.8	5115.3	5261.5	5812.1	6581.2	7839.0	9647.3	10388.9	10579.9	10025.8	6495.2
52.5°	3731.9	3845.5	4003.8	4550.9	5462.9	6841.0	8692.4	9860.7	10115.3	9721.3	6426.4
55°	2173.1	2047.5	2403.7	2866.5	3726.8	5160.0	7348.6	8740.6	9212.0	9167.3	6078.8
57.5°	870.6	843.1	965.2	1300.8	1944.3	3198.6	5344.1	7181.7	7937.1	8396.4	5342.4
60°	382.0	373.4	438.7	529.9	794.9	1474.5	2923.3	4466.6	5254.7	5867.2	3676.9
62.5°	275.3	271.9	304.5	337.2	419.8	641.8	1228.5	1799.7	2243.6	2709.9	1646.6
65°	222.0	230.6	252.9	270.1	309.7	356.2	433.6	500.7	614.2	636.6	363.0
67.5°	180.7	187.5	208.2	227.1	234.0	192.7	199.6	175.5	175.5	156.6	125.6
70°	132.5	134.2	158.3	180.7	144.5	77.4	135.9	135.9	122.2	117.0	106.7
72.5°	98.1	99.8	118.7	111.8	56.8	48.2	99.8	110.1	99.8	94.6	86.0
75°	72.3	74.0	61.9	25.8	24.1	31.0	58.5	75.7	72.3	70.5	65.4
77.5°	13.8	10.3	8.6	12.0	17.2	25.8	37.9	46.5	48.2	51.6	48.2
80°	1.7	1.7	5.2	10.3	18.9	27.5	39.6	44.7	46.5	48.2	44.7
82.5°	0.0	1.7	5.2	10.3	18.9	25.8	34.4	39.6	43.0	44.7	43.0
85°	0.0	1.7	3.4	8.6	15.5	18.9	17.2	12.0	10.3	12.0	8.6
87.5°	0.0	0.0	1.7	1.7	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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°	1084.0	1084.0	1084.0	1084.0	1084.0	1084.0	1084.0	1084.0	1084.0	1084.0	1084.0
2.5°	1097.7	1090.9	1066.8	1041.0	1018.6	1028.9	1018.6	1010.0	1013.4	1010.0	1006.5
5°	1158.0	1127.0	1075.4	1053.0	1034.1	1032.4	1027.2	1025.5	1027.2	1027.2	1011.7
7.5°	1214.7	1164.8	1109.8	1085.7	1063.3	1065.0	1053.0	1053.0	1051.3	1042.7	1039.2
10°	1300.8	1233.7	1163.1	1120.1	1092.6	1087.4	1075.4	1063.3	1063.3	1063.3	1046.1
12.5°	1395.4	1311.1	1214.7	1164.8	1132.1	1106.3	1087.4	1084.0	1065.0	1061.6	1053.0
15°	1478.0	1371.3	1249.1	1180.3	1139.0	1104.6	1075.4	1056.4	1047.8	1042.7	1035.8
17.5°	1558.8	1422.9	1268.1	1180.3	1135.6	1096.0	1065.0	1047.8	1027.2	1030.6	1016.9
20°	1667.2	1478.0	1273.2	1158.0	1102.9	1065.0	1023.7	1015.1	1003.1	992.8	996.2
22.5°	1772.2	1517.6	1257.7	1130.4	1051.3	1006.5	985.9	975.6	970.4	961.8	949.8
25°	1866.8	1560.6	1233.7	1080.5	996.2	963.5	944.6	942.9	930.8	930.8	908.5
27.5°	1963.2	1576.1	1192.4	1022.0	948.0	929.1	920.5	917.1	911.9	899.9	884.4
30°	2073.3	1581.2	1132.1	961.8	905.0	884.4	896.4	905.0	882.7	860.3	867.2
32.5°	2164.5	1569.2	1059.9	905.0	874.1	863.7	887.8	896.4	870.6	846.5	834.5
35°	2274.6	1539.9	989.3	860.3	843.1	863.7	884.4	884.4	832.8	803.5	796.6
37.5°	2441.5	1507.2	924.0	822.4	810.4	853.4	880.9	862.0	781.1	745.0	736.4
40°	2620.4	1486.6	860.3	784.6	793.2	836.2	851.7	793.2	710.6	688.2	681.4
42.5°	2880.3	1445.3	803.5	751.9	777.7	812.1	812.1	707.2	676.2	664.1	662.4
45°	3203.7	1416.0	753.6	724.4	755.3	763.9	736.4	662.4	640.1	636.6	638.3
47.5°	3362.0	1359.3	702.0	691.7	714.0	715.8	643.5	626.3	607.4	602.2	598.8
50°	3337.9	1257.7	634.9	648.7	679.6	662.4	586.7	590.2	573.0	571.2	562.6
52.5°	3169.3	1097.7	567.8	600.5	634.9	585.0	540.3	536.8	536.8	514.5	505.9
55°	2809.7	884.4	486.9	528.2	569.5	492.1	480.0	476.6	468.0	447.4	442.2
57.5°	2224.7	648.7	366.5	411.2	483.5	418.1	416.4	400.9	378.5	363.0	363.0
60°	1323.1	373.4	230.6	251.2	320.0	339.0	376.8	369.9	332.1	308.0	301.1
62.5°	603.9	192.7	146.2	149.7	172.1	220.2	295.9	342.4	289.1	247.8	244.3
65°	203.0	142.8	120.4	115.3	118.7	132.5	177.2	242.6	230.6	191.0	184.1
67.5°	123.9	127.3	113.6	105.0	105.0	103.2	101.5	110.1	135.9	132.5	134.2
70°	106.7	117.0	105.0	94.6	91.2	86.0	72.3	60.2	51.6	60.2	63.7
72.5°	86.0	92.9	89.5	80.9	72.3	65.4	51.6	39.6	29.2	25.8	25.8
75°	63.7	68.8	72.3	61.9	55.1	46.5	37.9	25.8	15.5	10.3	10.3
77.5°	46.5	51.6	53.3	48.2	41.3	32.7	24.1	17.2	8.6	3.4	3.4
80°	39.6	46.5	51.6	48.2	43.0	31.0	22.4	12.0	6.9	1.7	1.7
82.5°	37.9	46.5	51.6	46.5	41.3	29.2	22.4	13.8	5.2	1.7	1.7
85°	8.6	12.0	15.5	18.9	22.4	22.4	17.2	10.3	5.2	1.7	1.7
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	1.7	1.7	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)