

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: P594836

Luminaire Tested: **ISS-PA1E-827-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1E-827-U-T4W-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5806 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

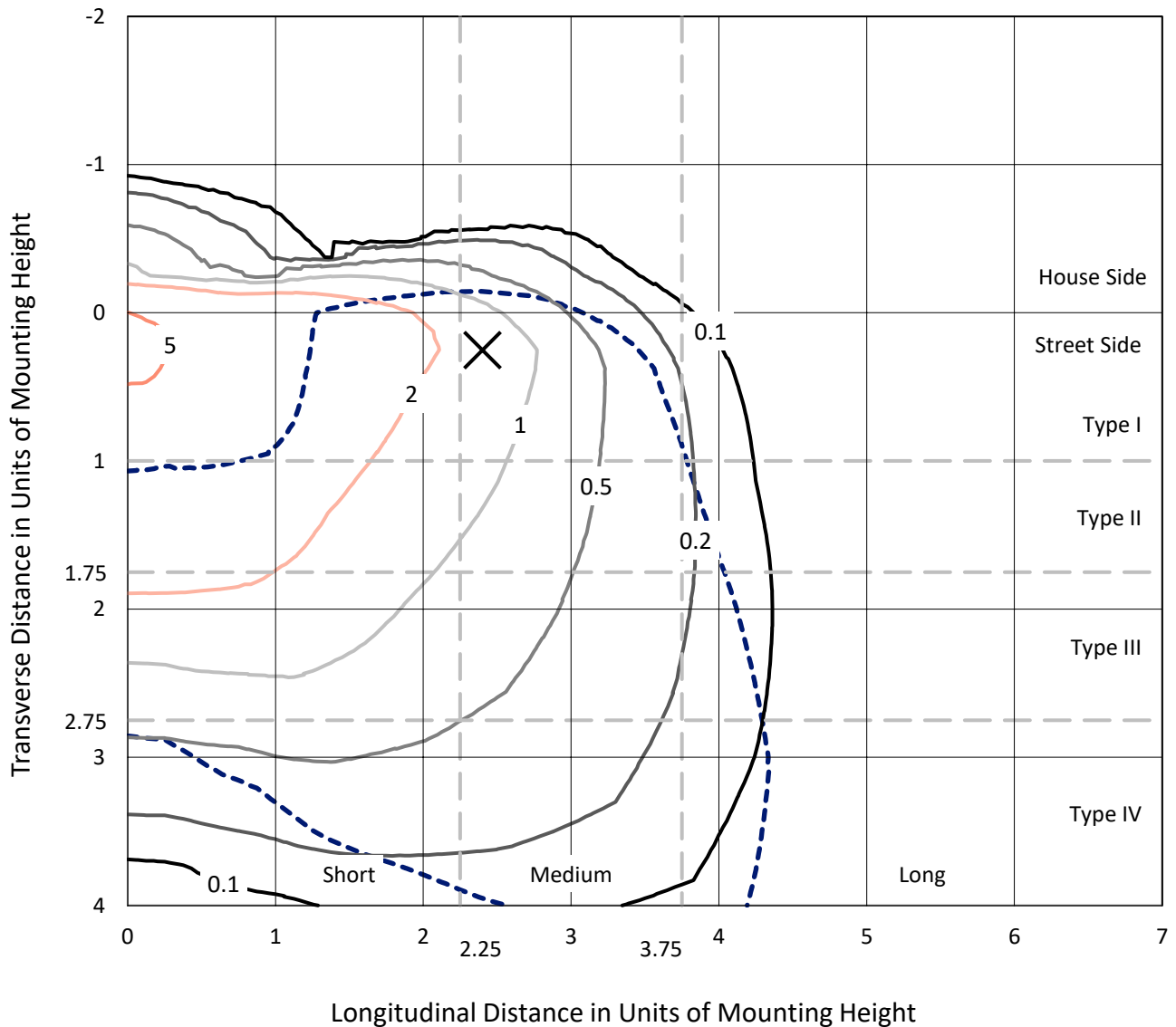
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

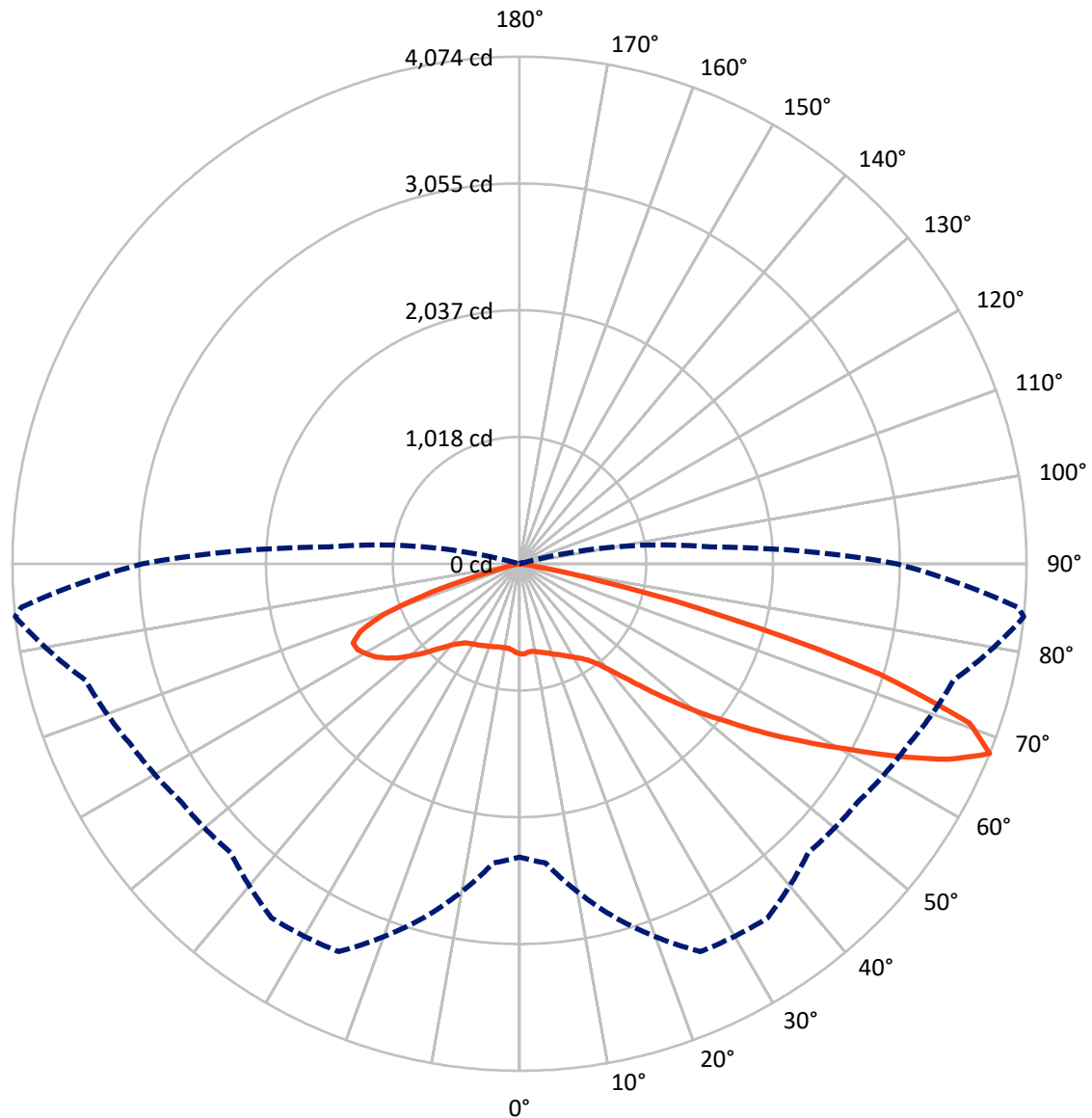
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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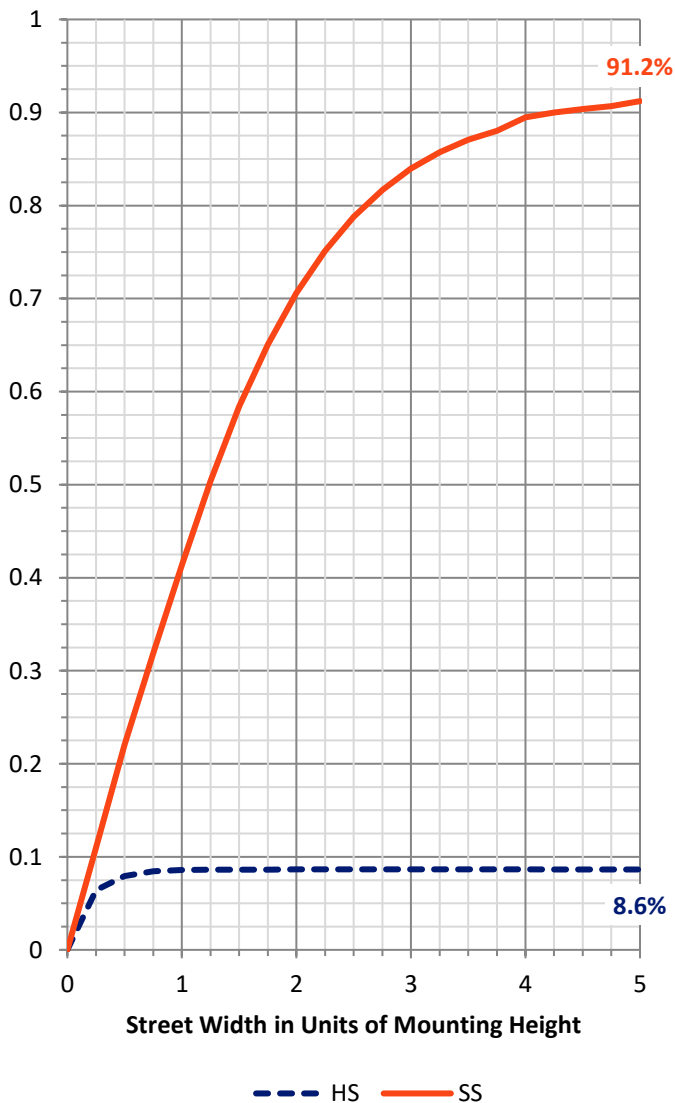
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	505.5	0.0	505.5
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	5300.5	0.0	5300.5
	% Fixture	91.3	0.0	91.3
Total	Lumens	5806.0	0.0	5806.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	1.1
10°-20°	169.6	2.9
20°-30°	271.7	4.7
30°-40°	391.0	6.7
40°-50°	671.1	11.6
50°-60°	1172.6	20.2
60°-70°	1679.2	28.9
70°-80°	1262.1	21.7
80°-90°	123.9	2.1
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°	5806.0	100.0
0°-180°	5806.0	100.0

Coefficient of Utilization

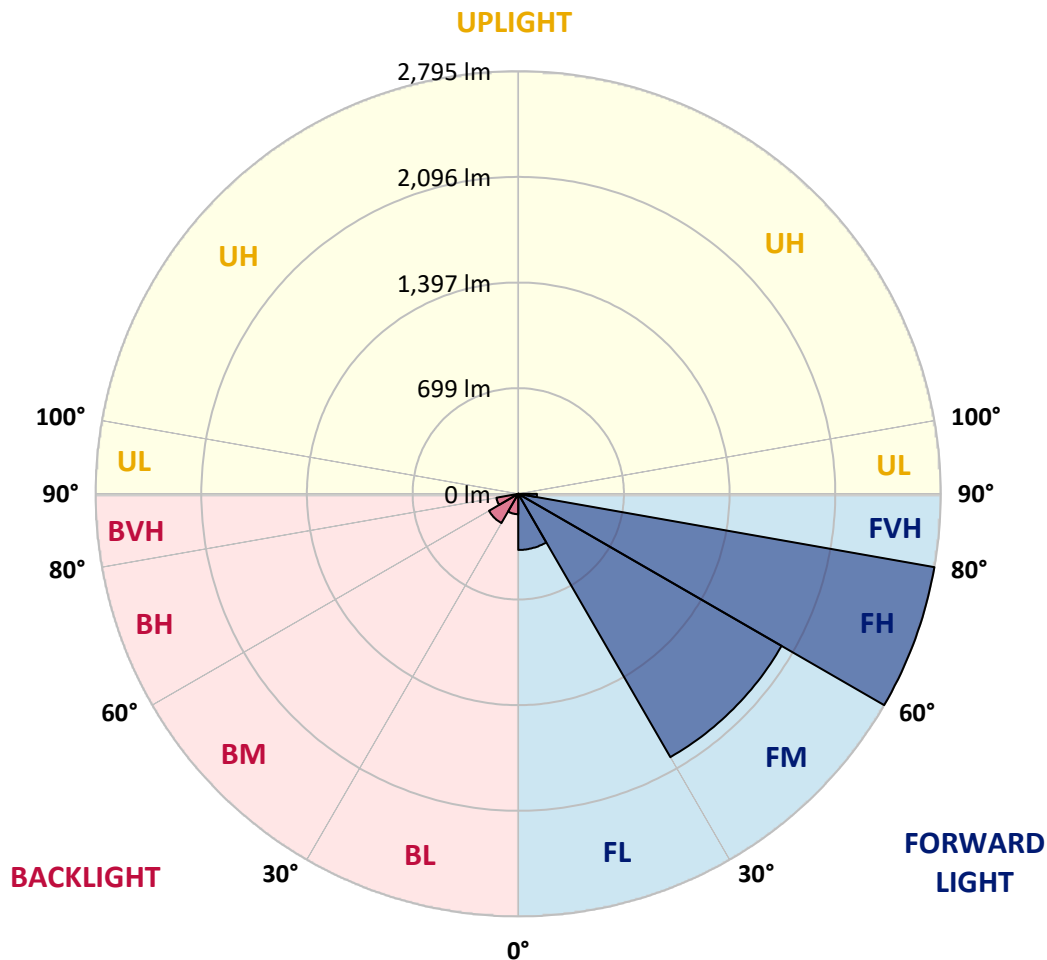


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	371.2	6.4			
FM (30°-60°)	2011.1	34.6			
FH (60°-80°)	2794.7	48.1			G2/5000
FVH (80°-90°)	123.5	2.1			G2/225
BL (0°-30°)	135.0	2.3	B1/500		
BM (30°-60°)	223.6	3.9	B1/1000		
BH (60°-80°)	146.6	2.5	B1/500		G1/500
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: B1-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4
2.5°	764.5	768.4	770.4	760.6	760.6	752.8	741.0	737.1	731.2	725.3	723.4
5°	803.7	809.6	807.7	795.9	790.0	774.3	758.6	743.0	727.3	713.6	713.6
7.5°	848.8	850.8	844.9	825.3	813.5	792.0	768.4	750.8	731.2	711.6	707.7
10°	888.0	886.1	878.2	858.6	837.1	809.6	784.1	764.5	741.0	717.5	715.5
12.5°	915.5	917.4	907.6	880.2	858.6	827.3	801.8	782.2	754.7	729.2	723.4
15°	939.0	944.9	933.1	905.7	874.3	846.9	827.3	801.8	770.4	741.0	737.1
17.5°	960.6	962.5	952.7	921.3	891.9	868.4	846.9	823.3	792.0	754.7	750.8
20°	972.3	978.2	972.3	933.1	905.7	888.0	870.4	846.9	811.6	776.3	772.4
22.5°	980.2	986.0	984.1	941.0	917.4	903.7	888.0	866.5	833.1	792.0	788.0
25°	984.1	988.0	991.9	948.8	929.2	923.3	909.6	890.0	858.6	815.5	811.6
27.5°	990.0	993.9	997.8	958.6	950.8	944.9	941.0	925.3	888.0	842.9	837.1
30°	999.8	1005.6	1009.6	976.2	976.2	982.1	982.1	960.6	919.4	872.3	868.4
32.5°	1011.5	1013.5	1021.3	993.9	1003.7	1017.4	1013.5	991.9	948.8	905.7	899.8
35°	1042.9	1042.9	1056.6	1021.3	1033.1	1044.8	1048.8	1033.1	993.9	950.8	948.8
37.5°	1119.3	1119.3	1131.1	1074.3	1072.3	1084.1	1097.8	1097.8	1058.6	1019.4	1015.4
40°	1291.9	1291.9	1291.9	1160.5	1138.9	1152.7	1174.2	1186.0	1152.7	1125.2	1125.2
42.5°	1580.0	1582.0	1552.6	1319.3	1227.2	1250.7	1274.2	1299.7	1282.0	1262.4	1258.5
45°	1878.0	1868.2	1864.3	1552.6	1384.0	1372.2	1401.6	1444.8	1450.6	1438.9	1446.7
47.5°	2081.9	2091.7	2097.5	1842.7	1603.5	1523.2	1550.6	1611.4	1646.7	1644.7	1656.5
50°	2279.9	2285.7	2291.6	2162.2	1893.7	1713.3	1731.0	1813.3	1862.3	1878.0	1885.8
52.5°	2452.4	2436.7	2462.2	2444.5	2201.4	1930.9	1930.9	2025.0	2113.2	2119.1	2117.1
55°	2503.3	2513.1	2589.6	2642.5	2517.0	2197.5	2158.3	2258.3	2352.4	2401.4	2401.4
57.5°	2617.0	2626.8	2719.0	2838.5	2746.4	2460.2	2401.4	2499.4	2601.3	2695.4	2709.2
60°	2766.0	2768.0	2866.0	3048.3	2920.9	2697.4	2648.4	2760.1	2862.1	3022.8	3067.9
62.5°	2846.4	2854.2	2989.5	3228.6	3140.4	2905.2	2893.4	2995.4	3126.7	3409.0	3450.2
65°	2722.9	2773.9	3067.9	3336.5	3318.8	3099.3	3140.4	3222.8	3373.7	3787.3	3826.5
67.5°	2356.3	2413.2	2938.5	3438.4	3473.7	3281.6	3324.7	3444.3	3610.9	4073.5	4018.7
70°	2170.1	2217.1	2624.9	3495.2	3603.1	3485.4	3505.0	3616.8	3665.8	3834.4	3775.6
72.5°	1644.7	1693.7	2221.0	3301.2	3714.8	3699.1	3650.1	3558.0	3267.9	3016.9	2873.8
75°	727.3	784.1	1478.1	2579.8	3438.4	3820.7	3561.9	3046.3	2346.5	1713.3	1587.9
77.5°	321.5	354.8	572.4	1433.0	2583.7	3307.1	2817.0	2030.9	1178.2	637.1	592.0
80°	103.9	107.8	180.3	501.8	1321.3	2189.7	1725.1	976.2	362.7	149.0	139.2
82.5°	41.2	45.1	86.3	211.7	546.9	870.4	846.9	352.9	105.9	39.2	39.2
85°	11.8	13.7	43.1	111.7	194.1	245.0	299.9	117.6	56.8	11.8	11.8
87.5°	3.9	3.9	15.7	35.3	37.2	25.5	56.8	45.1	35.3	3.9	3.9
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°	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4
2.5°	719.4	715.5	705.7	697.9	694.0	688.1	680.2	676.3	676.3	674.3	668.5
5°	705.7	699.8	682.2	670.4	660.6	639.1	623.4	603.8	584.2	578.3	584.2
7.5°	699.8	688.1	664.5	641.0	599.9	543.0	505.8	464.6	450.9	433.2	435.2
10°	701.8	688.1	654.7	601.8	521.4	437.2	378.3	323.5	296.0	282.3	284.2
12.5°	707.7	692.0	644.9	548.9	433.2	331.3	241.1	198.0	190.2	190.2	190.2
15°	719.4	695.9	629.3	486.2	339.1	219.6	170.5	166.6	172.5	178.4	180.3
17.5°	731.2	707.7	605.7	421.5	247.0	164.7	158.8	158.8	164.7	170.5	172.5
20°	744.9	719.4	572.4	352.9	176.4	154.9	152.9	150.9	154.9	160.7	162.7
22.5°	766.5	731.2	533.2	272.5	152.9	149.0	145.1	143.1	145.1	150.9	152.9
25°	786.1	746.9	492.0	201.9	143.1	139.2	137.2	135.3	135.3	139.2	141.1
27.5°	809.6	764.5	447.0	150.9	131.3	129.4	127.4	125.5	123.5	127.4	129.4
30°	839.0	780.2	397.9	127.4	119.6	117.6	115.7	113.7	111.7	113.7	115.7
32.5°	876.3	801.8	341.1	115.7	109.8	103.9	101.9	101.9	100.0	100.0	101.9
35°	925.3	825.3	280.3	107.8	100.0	94.1	88.2	86.3	86.3	86.3	88.2
37.5°	997.8	868.4	221.5	100.0	92.1	82.3	76.5	70.6	70.6	70.6	70.6
40°	1097.8	915.5	172.5	94.1	86.3	72.5	64.7	56.8	52.9	51.0	52.9
42.5°	1252.6	986.0	133.3	86.3	82.3	64.7	52.9	43.1	35.3	33.3	35.3
45°	1423.2	1062.5	105.9	80.4	74.5	54.9	41.2	29.4	21.6	19.6	21.6
47.5°	1638.8	1158.5	90.2	72.5	64.7	45.1	29.4	15.7	9.8	11.8	11.8
50°	1846.6	1252.6	82.3	66.7	56.8	37.2	17.6	7.8	3.9	5.9	5.9
52.5°	2076.0	1352.6	76.5	58.8	49.0	27.4	9.8	2.0	0.0	2.0	2.0
55°	2307.3	1442.8	70.6	52.9	39.2	19.6	3.9	0.0	0.0	0.0	2.0
57.5°	2558.2	1519.2	64.7	45.1	29.4	11.8	2.0	0.0	0.0	0.0	0.0
60°	2768.0	1578.1	58.8	39.2	19.6	5.9	0.0	0.0	0.0	0.0	0.0
62.5°	2960.1	1631.0	45.1	29.4	11.8	3.9	0.0	0.0	0.0	0.0	0.0
65°	3087.5	1642.7	31.4	19.6	7.8	2.0	0.0	0.0	0.0	0.0	0.0
67.5°	3030.7	1540.8	19.6	13.7	3.9	2.0	0.0	0.0	0.0	0.0	0.0
70°	2664.1	1293.8	13.7	7.8	2.0	2.0	0.0	0.0	0.0	0.0	0.0
72.5°	1864.3	835.1	11.8	5.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	984.1	301.9	7.8	3.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	348.9	66.7	3.9	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	76.5	13.7	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	21.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.0	0.0	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)