

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: P594614

Luminaire Tested: **ISS-PA1C-727-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1C-727-U-T2R-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4836.1 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

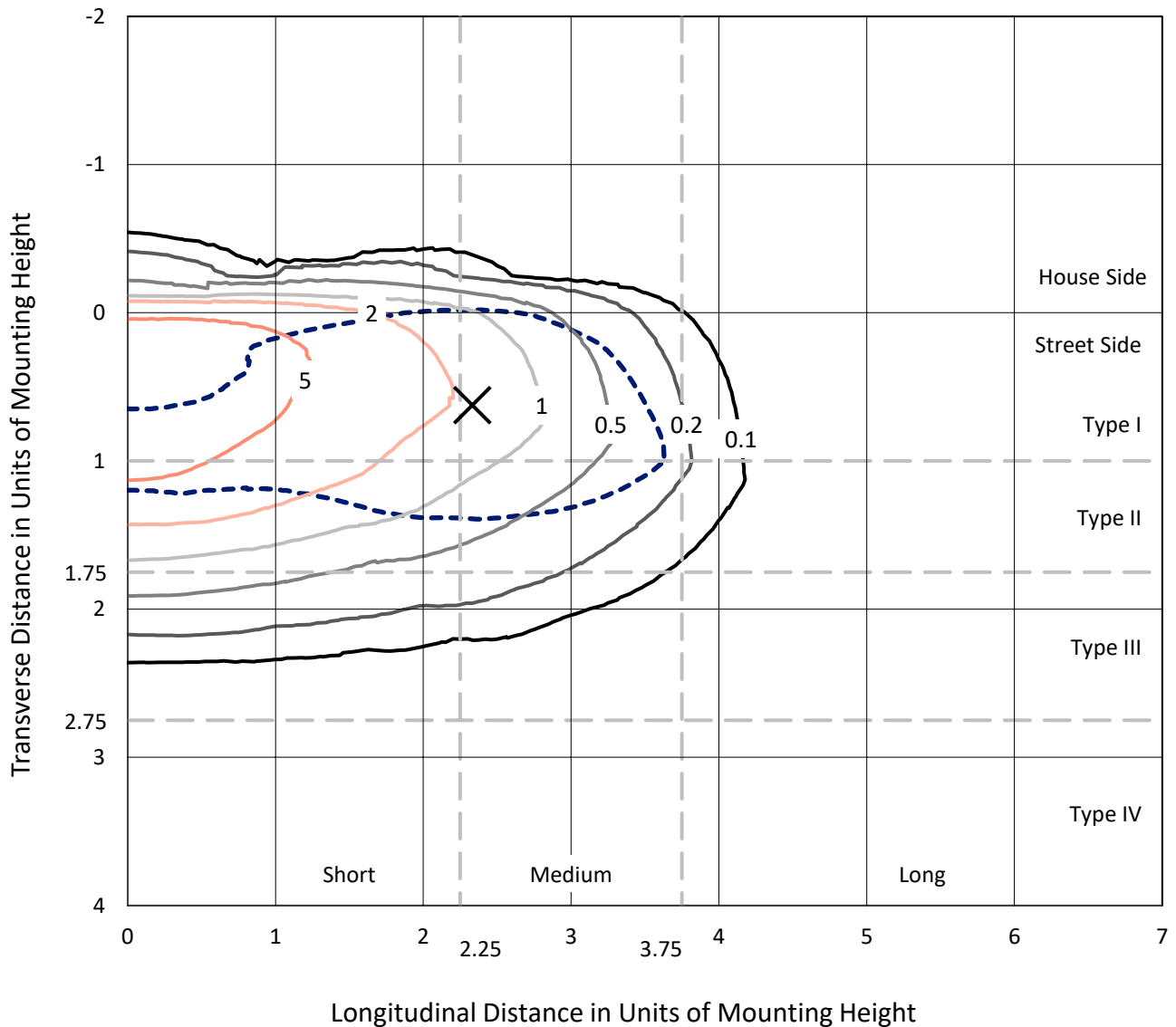
Input Watts (W): 48.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

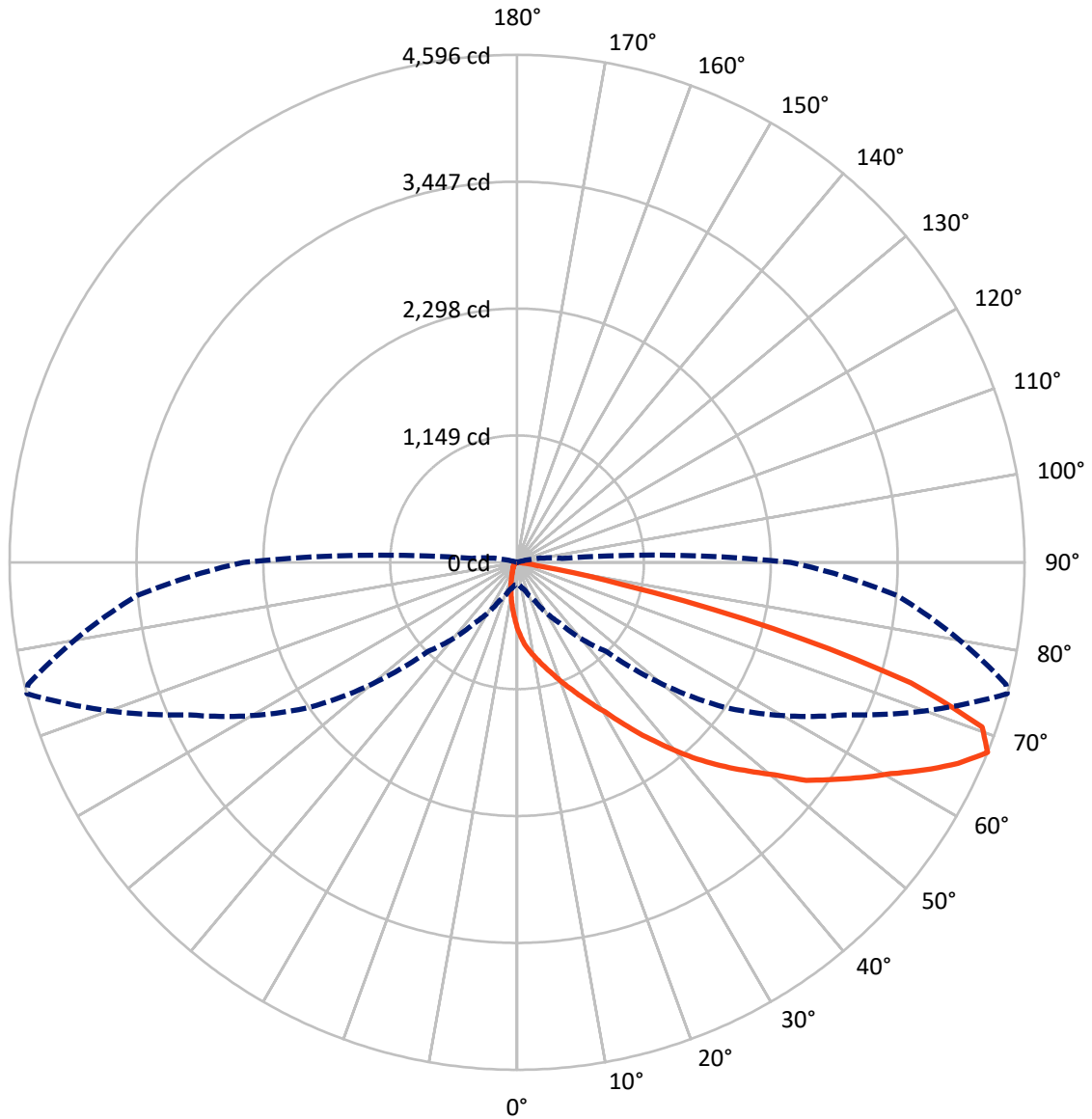
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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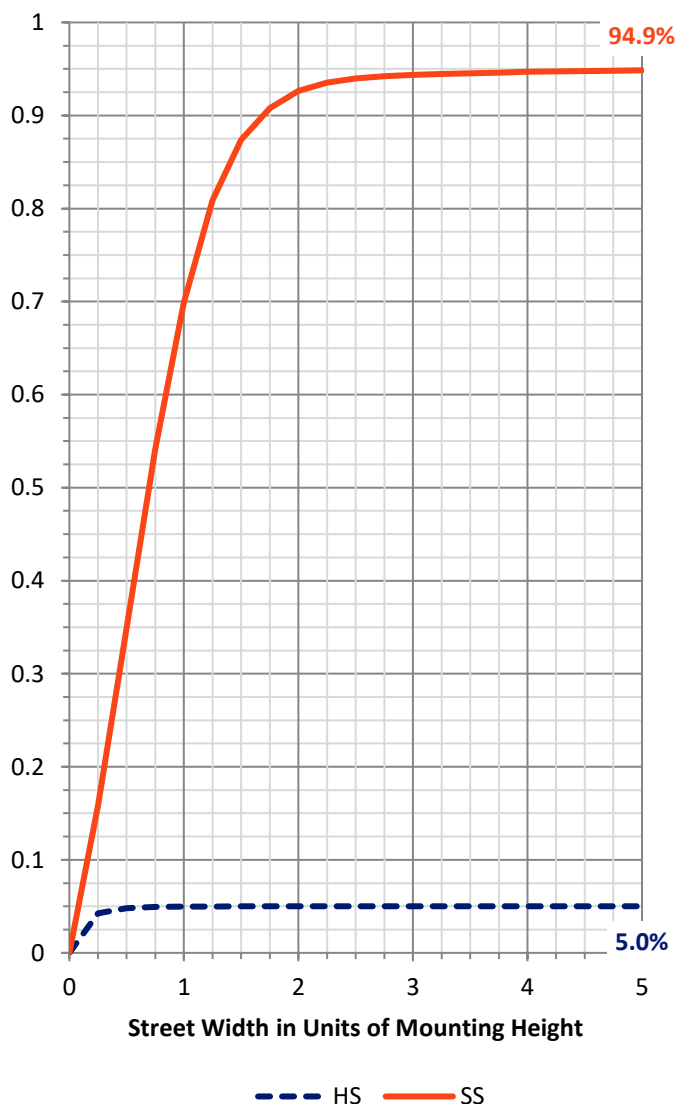
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	243.8	0.0	243.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	4592.2	0.0	4592.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	4836.1	0.0	4836.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	1.1
10°-20°	174.9	3.6
20°-30°	351.6	7.3
30°-40°	665.1	13.8
40°-50°	995.0	20.6
50°-60°	1148.8	23.8
60°-70°	1018.3	21.1
70°-80°	411.6	8.5
80°-90°	16.4	0.3
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°	4836.1	100.0
0°-180°	4836.1	100.0

Coefficient of Utilization

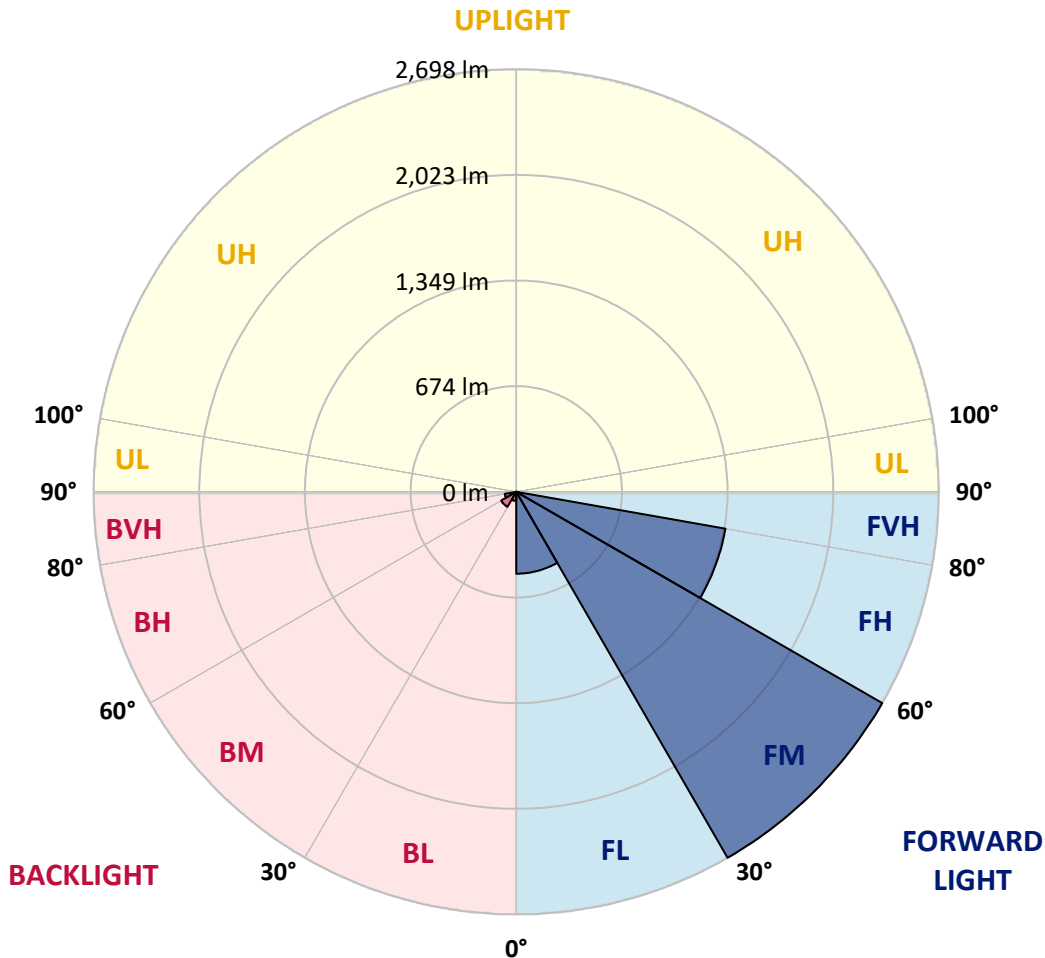


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	522.8	10.8			
FM (30°-60°)	2697.7	55.8			
FH (60°-80°)	1356.0	28.0			G1/1800
FVH (80°-90°)	15.7	0.3			G1/100
BL (0°-30°)	58.0	1.2	B0/110		
BM (30°-60°)	111.2	2.3	B0/220		
BH (60°-80°)	73.9	1.5	B0/110		G0/110
BVH (80°-90°)	0.7	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0
2.5°	836.2	839.1	833.3	820.2	808.6	781.0	759.2	720.0	677.9	677.9	627.1
5°	934.9	932.0	929.1	918.9	910.2	887.0	858.0	815.9	750.5	744.7	660.5
7.5°	982.8	979.9	974.1	969.7	969.7	953.8	926.2	882.6	810.0	804.2	691.0
10°	1039.4	1033.6	1033.6	1022.0	1019.1	1000.2	985.7	948.0	868.1	860.9	725.8
12.5°	1106.2	1100.4	1101.8	1091.7	1087.3	1067.0	1046.7	1010.4	930.5	923.3	766.5
15°	1143.9	1141.0	1149.7	1151.2	1154.1	1136.7	1117.8	1080.1	1000.2	990.1	814.4
17.5°	1165.7	1165.7	1175.9	1194.7	1216.5	1206.4	1191.8	1161.4	1071.3	1065.5	865.2
20°	1207.8	1203.5	1220.9	1238.3	1265.9	1274.6	1270.2	1247.0	1157.0	1139.6	920.4
22.5°	1277.5	1271.7	1287.7	1309.4	1342.8	1345.7	1348.6	1337.0	1244.1	1226.7	978.4
25°	1441.5	1427.0	1412.5	1409.6	1422.7	1434.3	1425.6	1434.3	1342.8	1326.8	1040.9
27.5°	1760.9	1736.2	1666.5	1589.6	1535.9	1546.1	1518.5	1534.4	1456.0	1435.7	1098.9
30°	2067.2	2042.5	1985.9	1849.5	1726.1	1670.9	1630.3	1624.4	1572.2	1549.0	1165.7
32.5°	2280.6	2264.6	2226.9	2135.4	1981.6	1840.7	1762.4	1734.8	1727.5	1691.2	1251.4
35°	2425.8	2411.3	2385.1	2311.1	2197.9	2041.1	1906.1	1845.1	1900.3	1856.7	1348.6
37.5°	2512.9	2502.7	2473.7	2422.9	2361.9	2258.8	2084.6	1987.4	2074.5	2033.8	1473.5
40°	2576.8	2550.6	2530.3	2491.1	2470.8	2437.4	2287.9	2135.4	2263.2	2221.1	1596.9
42.5°	2582.6	2570.9	2555.0	2531.8	2534.7	2556.4	2504.2	2306.7	2453.4	2414.2	1727.5
45°	2581.1	2569.5	2557.9	2534.7	2549.2	2630.5	2678.4	2486.7	2639.2	2598.5	1865.4
47.5°	2539.0	2530.3	2533.2	2533.2	2552.1	2662.4	2813.4	2669.7	2825.0	2785.8	2032.4
50°	2390.9	2399.6	2457.7	2488.2	2521.6	2663.9	2907.7	2861.3	3025.3	2997.7	2193.5
52.5°	1922.0	1971.4	2206.6	2367.7	2465.0	2634.8	2968.7	3063.1	3279.4	3237.3	2376.4
55°	1469.1	1472.0	1698.5	2073.0	2353.2	2582.6	3003.6	3199.5	3472.4	3449.2	2537.6
57.5°	1191.8	1190.4	1302.2	1639.0	2062.9	2499.8	3012.3	3299.7	3677.1	3633.6	2723.4
60°	974.1	968.3	1035.1	1242.6	1685.4	2305.3	2980.3	3381.0	3887.6	3871.7	2917.9
62.5°	704.1	709.9	798.4	959.6	1299.3	1946.7	2912.1	3405.7	4141.7	4125.7	3135.7
65°	405.0	422.4	519.7	691.0	995.9	1522.8	2717.6	3386.8	4389.9	4388.5	3337.4
67.5°	203.2	204.7	256.9	386.2	669.2	1139.6	2287.9	3267.8	4596.1	4564.1	3453.6
70°	130.7	133.6	151.0	198.9	370.2	789.7	1747.8	2931.0	4466.9	4455.2	3283.7
72.5°	100.2	103.1	117.6	130.7	193.1	448.6	1183.1	2277.7	3729.4	3697.5	2560.8
75°	78.4	79.8	94.4	106.0	129.2	210.5	593.7	1419.8	2402.6	2319.8	1457.5
77.5°	62.4	63.9	71.1	84.2	98.7	117.6	175.7	638.7	977.0	872.5	473.3
80°	40.6	42.1	53.7	65.3	84.2	76.9	68.2	184.4	209.0	188.7	84.2
82.5°	23.2	24.7	36.3	52.3	63.9	43.6	39.2	53.7	49.4	47.9	26.1
85°	7.3	7.3	24.7	36.3	29.0	13.1	24.7	18.9	16.0	14.5	8.7
87.5°	1.5	1.5	11.6	13.1	4.4	1.5	2.9	4.4	5.8	7.3	4.4
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°	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0
2.5°	602.5	573.4	519.7	473.3	428.2	389.1	361.5	336.8	319.4	315.0	307.8
5°	606.8	550.2	447.1	360.0	284.5	223.6	188.7	165.5	153.9	146.6	146.6
7.5°	611.2	527.0	378.9	262.8	180.0	136.5	114.7	104.5	100.2	98.7	97.3
10°	619.9	509.5	320.8	188.7	123.4	103.1	94.4	90.0	87.1	85.6	85.6
12.5°	634.4	495.0	267.1	139.4	101.6	91.5	85.6	79.8	76.9	75.5	75.5
15°	653.3	484.9	220.7	111.8	92.9	82.7	75.5	69.7	65.3	63.9	63.9
17.5°	679.4	477.6	181.5	98.7	85.6	74.0	65.3	59.5	55.2	53.7	53.7
20°	705.5	477.6	149.5	91.5	78.4	65.3	56.6	49.4	45.0	43.6	43.6
22.5°	740.4	476.2	124.8	84.2	69.7	56.6	47.9	39.2	36.3	34.8	34.8
25°	769.4	476.2	107.4	76.9	61.0	49.4	39.2	31.9	29.0	27.6	27.6
27.5°	804.2	471.8	91.5	68.2	52.3	40.6	31.9	26.1	23.2	21.8	21.8
30°	834.7	466.0	81.3	61.0	45.0	33.4	26.1	20.3	18.9	18.9	18.9
32.5°	885.5	461.6	72.6	52.3	37.7	27.6	20.3	16.0	14.5	14.5	14.5
35°	946.5	461.6	66.8	45.0	31.9	23.2	16.0	13.1	11.6	11.6	11.6
37.5°	1026.3	466.0	59.5	39.2	26.1	18.9	13.1	10.2	8.7	8.7	8.7
40°	1110.5	476.2	53.7	34.8	23.2	14.5	10.2	7.3	5.8	7.3	7.3
42.5°	1210.7	486.3	47.9	30.5	18.9	11.6	7.3	4.4	2.9	4.4	4.4
45°	1309.4	496.5	45.0	26.1	16.0	8.7	4.4	2.9	1.5	2.9	2.9
47.5°	1431.4	521.2	42.1	23.2	13.1	7.3	2.9	1.5	0.0	1.5	1.5
50°	1572.2	548.7	37.7	18.9	10.2	5.8	2.9	0.0	0.0	0.0	0.0
52.5°	1707.2	572.0	33.4	16.0	8.7	4.4	1.5	0.0	0.0	0.0	0.0
55°	1842.2	586.5	29.0	13.1	7.3	4.4	1.5	0.0	0.0	0.0	0.0
57.5°	1987.4	595.2	26.1	11.6	5.8	2.9	1.5	0.0	0.0	0.0	0.0
60°	2148.5	595.2	21.8	10.2	4.4	2.9	1.5	0.0	0.0	0.0	0.0
62.5°	2327.1	577.8	20.3	8.7	4.4	2.9	1.5	0.0	0.0	0.0	0.0
65°	2472.2	515.4	17.4	7.3	4.4	2.9	1.5	0.0	0.0	0.0	0.0
67.5°	2478.0	407.9	16.0	5.8	4.4	2.9	1.5	0.0	0.0	0.0	0.0
70°	2209.5	278.7	13.1	4.4	2.9	2.9	1.5	0.0	0.0	0.0	0.0
72.5°	1653.5	149.5	11.6	4.4	2.9	1.5	1.5	0.0	0.0	0.0	0.0
75°	891.3	58.1	7.3	4.4	2.9	1.5	1.5	0.0	0.0	0.0	0.0
77.5°	259.9	29.0	4.4	2.9	2.9	1.5	1.5	0.0	0.0	0.0	0.0
80°	47.9	14.5	2.9	2.9	2.9	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	13.1	5.8	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	5.8	2.9	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	1.5	1.5	1.5	1.5	1.5	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)