

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: P594830

Luminaire Tested: **ISS-PA1E-827-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594830
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-PA1E-827-U-T2R-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 2700K, 1050mA 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: 6502 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G2

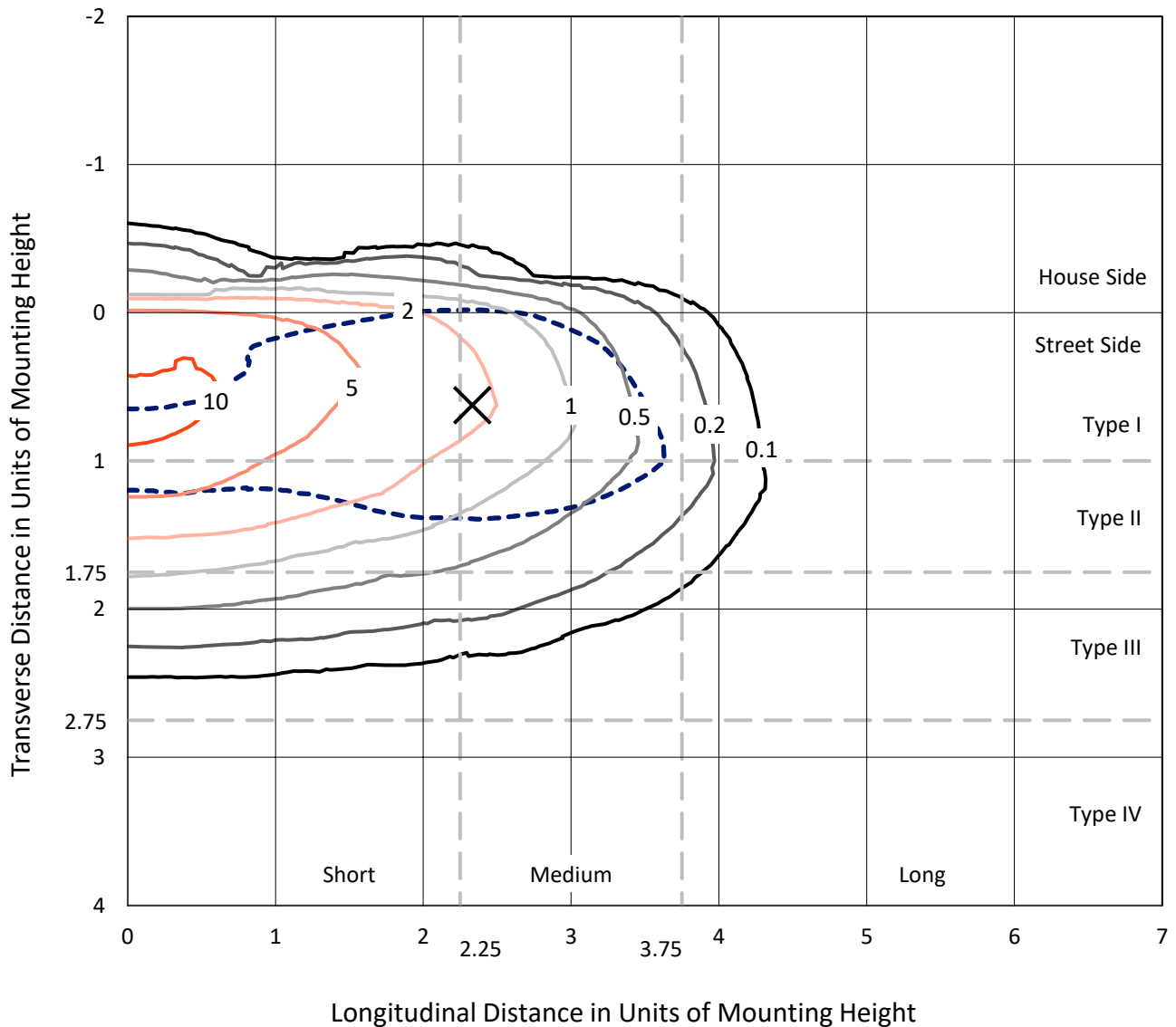
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

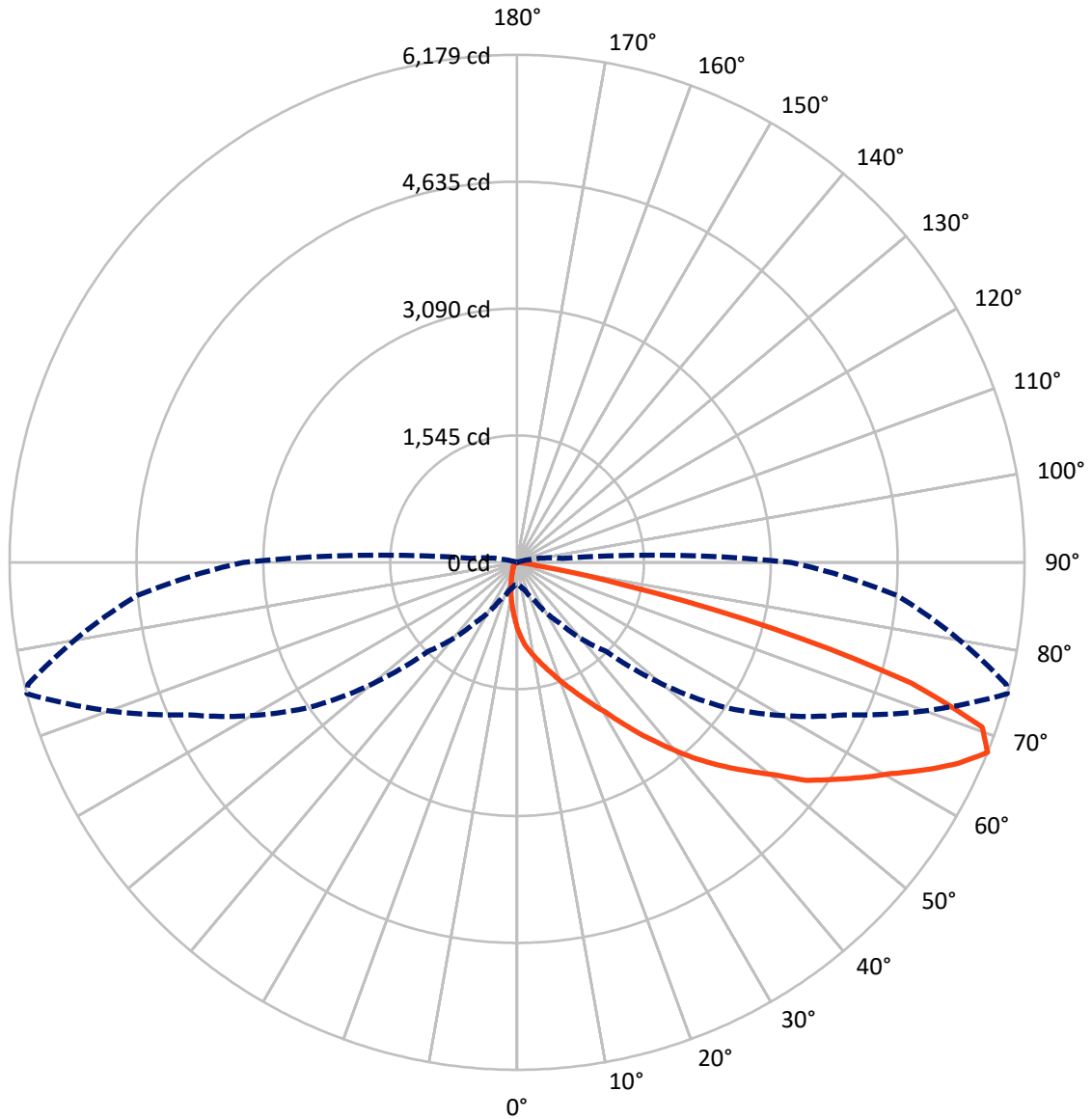
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 12.7 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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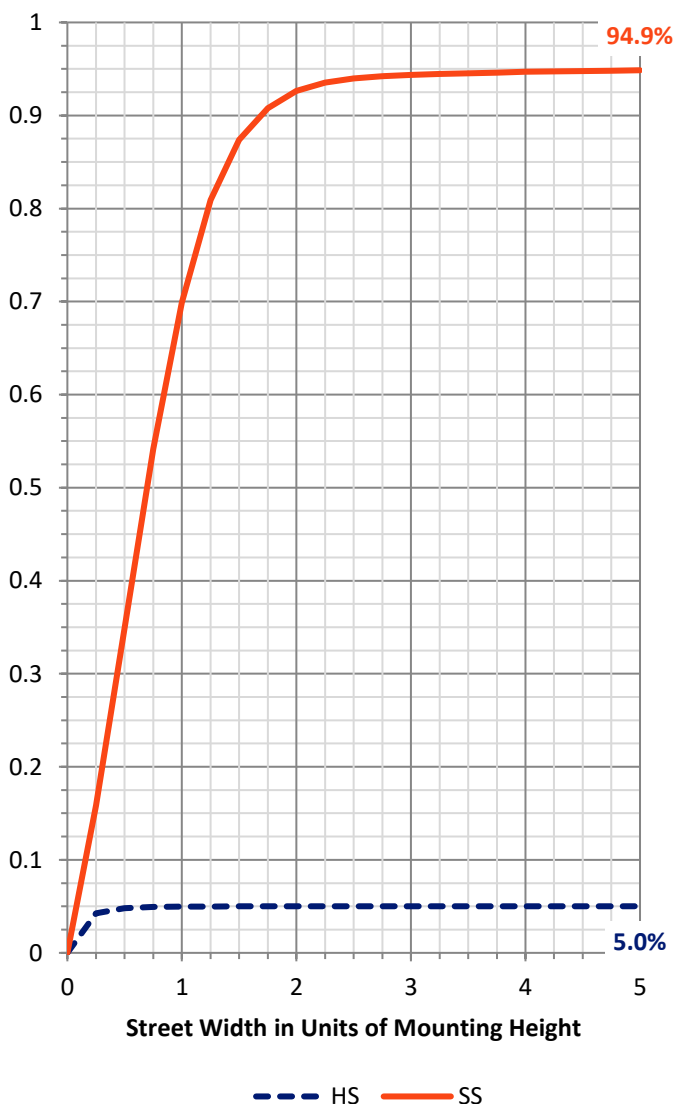
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	327.8	0.0	327.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	6174.2	0.0	6174.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	6502.0	0.0	6502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	1.1
10°-20°	235.2	3.6
20°-30°	472.8	7.3
30°-40°	894.2	13.8
40°-50°	1337.8	20.6
50°-60°	1544.6	23.8
60°-70°	1369.1	21.1
70°-80°	553.4	8.5
80°-90°	22.1	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°	6502.0	100.0
0°-180°	6502.0	100.0

Coefficient of Utilization



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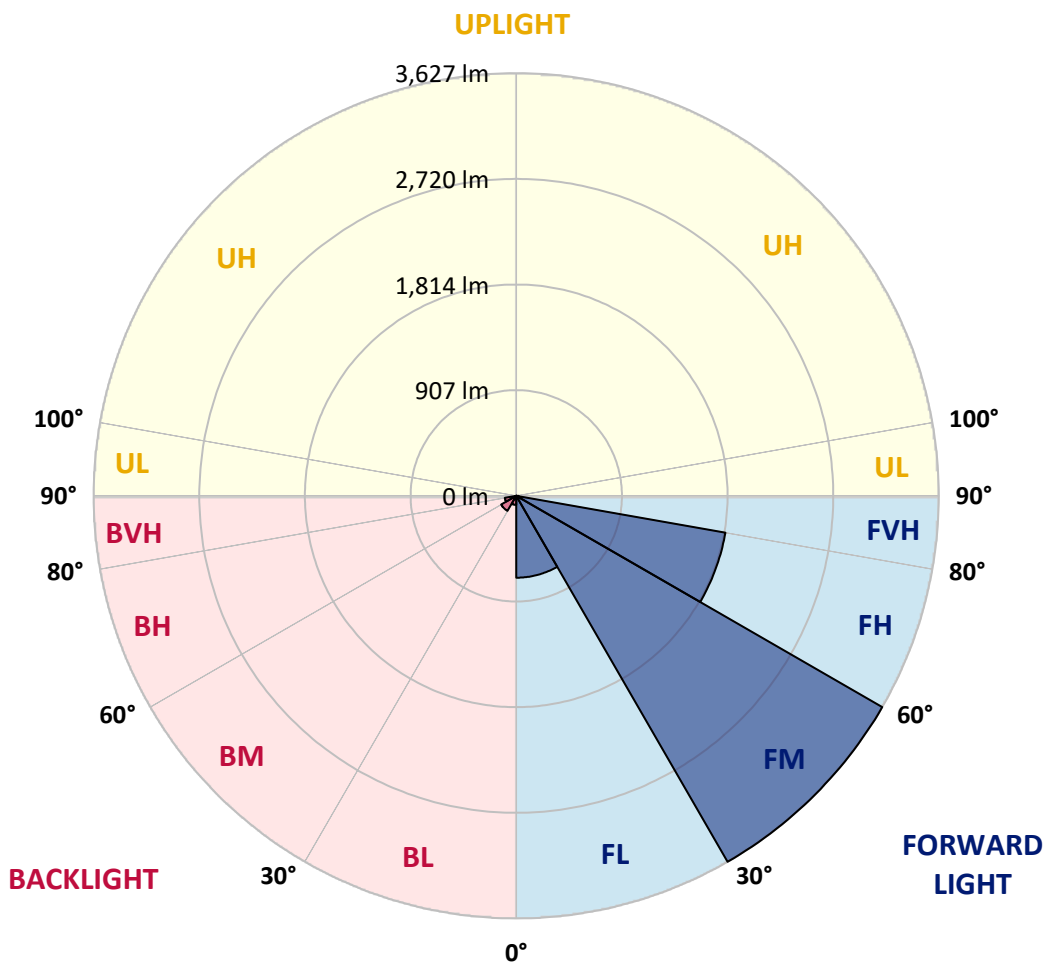
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	702.9	10.8			
FM (30°-60°)	3627.1	55.8			
FH (60°-80°)	1823.1	28.0			G2/5000
FVH (80°-90°)	21.1	0.3			G1/100
BL (0°-30°)	77.9	1.2	B0/110		
BM (30°-60°)	149.5	2.3	B0/220		
BH (60°-80°)	99.4	1.5	B0/110		G0/110
BVH (80°-90°)	1.0	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	808.0	808.0	808.0	808.0	808.0	808.0	808.0	808.0	808.0	808.0	808.0
2.5°	1124.2	1128.1	1120.3	1102.8	1087.2	1050.1	1020.8	968.1	911.5	911.5	843.2
5°	1257.0	1253.1	1249.2	1235.5	1223.8	1192.5	1153.5	1096.9	1009.1	1001.3	888.1
7.5°	1321.4	1317.5	1309.7	1303.8	1303.8	1282.3	1245.2	1186.7	1089.1	1081.3	929.1
10°	1397.5	1389.7	1389.7	1374.1	1370.2	1344.8	1325.3	1274.5	1167.2	1157.4	975.9
12.5°	1487.3	1479.5	1481.4	1467.8	1461.9	1434.6	1407.2	1358.5	1251.1	1241.3	1030.6
15°	1538.0	1534.1	1545.8	1547.8	1551.7	1528.3	1502.9	1452.1	1344.8	1331.1	1095.0
17.5°	1567.3	1567.3	1581.0	1606.3	1635.6	1621.9	1602.4	1561.4	1440.4	1432.6	1163.3
20°	1623.9	1618.0	1641.5	1664.9	1702.0	1713.7	1707.8	1676.6	1555.6	1532.2	1237.4
22.5°	1717.6	1709.8	1731.2	1760.5	1805.4	1809.3	1813.2	1797.6	1672.7	1649.3	1315.5
25°	1938.1	1918.6	1899.1	1895.2	1912.8	1928.4	1916.7	1928.4	1805.4	1783.9	1399.4
27.5°	2367.5	2334.4	2240.7	2137.2	2065.0	2078.7	2041.6	2063.1	1957.7	1930.3	1477.5
30°	2779.4	2746.2	2670.1	2486.6	2320.7	2246.5	2191.9	2184.1	2113.8	2082.6	1567.3
32.5°	3066.3	3044.8	2994.1	2871.1	2664.2	2474.9	2369.5	2332.4	2322.6	2273.8	1682.5
35°	3261.5	3241.9	3206.8	3107.3	2955.0	2744.2	2562.7	2480.7	2554.9	2496.4	1813.2
37.5°	3378.6	3364.9	3325.9	3257.6	3175.6	3037.0	2802.8	2672.0	2789.1	2734.5	1981.1
40°	3464.4	3429.3	3402.0	3349.3	3322.0	3277.1	3076.0	2871.1	3042.9	2986.3	2147.0
42.5°	3472.3	3456.6	3435.2	3403.9	3407.8	3437.1	3366.9	3101.4	3298.5	3245.8	2322.6
45°	3470.3	3454.7	3439.1	3407.8	3427.4	3536.7	3601.1	3343.4	3548.4	3493.7	2508.1
47.5°	3413.7	3402.0	3405.9	3405.9	3431.3	3579.6	3782.6	3589.4	3798.2	3745.5	2732.5
50°	3214.6	3226.3	3304.4	3345.4	3390.3	3581.6	3909.5	3847.0	4067.6	4030.5	2949.2
52.5°	2584.2	2650.5	2966.7	3183.4	3314.2	3542.5	3991.4	4118.3	4409.1	4352.5	3195.1
55°	1975.2	1979.1	2283.6	2787.2	3163.9	3472.3	4038.3	4301.8	4668.7	4637.5	3411.7
57.5°	1602.4	1600.5	1750.8	2203.6	2773.5	3361.0	4050.0	4436.4	4943.9	4885.4	3661.6
60°	1309.7	1301.9	1391.6	1670.7	2266.0	3099.5	4007.0	4545.7	5226.9	5205.5	3923.1
62.5°	946.6	954.4	1073.5	1290.1	1746.9	2617.4	3915.3	4578.9	5568.5	5547.0	4215.9
65°	544.6	568.0	698.7	929.1	1338.9	2047.4	3653.8	4553.5	5902.2	5900.3	4487.2
67.5°	273.3	275.2	345.5	519.2	899.8	1532.2	3076.0	4393.5	6179.4	6136.5	4643.3
70°	175.7	179.6	203.0	267.4	497.7	1061.8	2350.0	3940.7	6005.7	5990.1	4415.0
72.5°	134.7	138.6	158.1	175.7	259.6	603.1	1590.7	3062.4	5014.2	4971.2	3443.0
75°	105.4	107.3	126.9	142.5	173.7	283.0	798.3	1908.9	3230.2	3119.0	1959.6
77.5°	83.9	85.9	95.6	113.2	132.7	158.1	236.2	858.8	1313.6	1173.0	636.3
80°	54.7	56.6	72.2	87.8	113.2	103.4	91.7	247.9	281.1	253.7	113.2
82.5°	31.2	33.2	48.8	70.3	85.9	58.6	52.7	72.2	66.4	64.4	35.1
85°	9.8	9.8	33.2	48.8	39.0	17.6	33.2	25.4	21.5	19.5	11.7
87.5°	2.0	2.0	15.6	17.6	5.9	2.0	3.9	5.9	7.8	9.8	5.9
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°	808.0	808.0	808.0	808.0	808.0	808.0	808.0	808.0	808.0	808.0	808.0
2.5°	810.0	771.0	698.7	636.3	575.8	523.1	486.0	452.8	429.4	423.5	413.8
5°	815.9	739.7	601.2	484.0	382.6	300.6	253.7	222.5	206.9	197.1	197.1
7.5°	821.7	708.5	509.4	353.3	242.0	183.5	154.2	140.5	134.7	132.7	130.8
10°	833.4	685.1	431.3	253.7	165.9	138.6	126.9	121.0	117.1	115.2	115.2
12.5°	852.9	665.6	359.1	187.4	136.6	123.0	115.2	107.3	103.4	101.5	101.5
15°	878.3	651.9	296.7	150.3	124.9	111.3	101.5	93.7	87.8	85.9	85.9
17.5°	913.4	642.1	244.0	132.7	115.2	99.5	87.8	80.0	74.2	72.2	72.2
20°	948.6	642.1	201.0	123.0	105.4	87.8	76.1	66.4	60.5	58.6	58.6
22.5°	995.4	640.2	167.9	113.2	93.7	76.1	64.4	52.7	48.8	46.8	46.8
25°	1034.5	640.2	144.4	103.4	82.0	66.4	52.7	42.9	39.0	37.1	37.1
27.5°	1081.3	634.3	123.0	91.7	70.3	54.7	42.9	35.1	31.2	29.3	29.3
30°	1122.3	626.5	109.3	82.0	60.5	44.9	35.1	27.3	25.4	25.4	25.4
32.5°	1190.6	620.7	97.6	70.3	50.7	37.1	27.3	21.5	19.5	19.5	19.5
35°	1272.6	620.7	89.8	60.5	42.9	31.2	21.5	17.6	15.6	15.6	15.6
37.5°	1379.9	626.5	80.0	52.7	35.1	25.4	17.6	13.7	11.7	11.7	11.7
40°	1493.1	640.2	72.2	46.8	31.2	19.5	13.7	9.8	7.8	9.8	9.8
42.5°	1627.8	653.9	64.4	41.0	25.4	15.6	9.8	5.9	3.9	5.9	5.9
45°	1760.5	667.5	60.5	35.1	21.5	11.7	5.9	3.9	2.0	3.9	3.9
47.5°	1924.5	700.7	56.6	31.2	17.6	9.8	3.9	2.0	0.0	2.0	2.0
50°	2113.8	737.8	50.7	25.4	13.7	7.8	3.9	0.0	0.0	0.0	0.0
52.5°	2295.3	769.0	44.9	21.5	11.7	5.9	2.0	0.0	0.0	0.0	0.0
55°	2476.8	788.5	39.0	17.6	9.8	5.9	2.0	0.0	0.0	0.0	0.0
57.5°	2672.0	800.2	35.1	15.6	7.8	3.9	2.0	0.0	0.0	0.0	0.0
60°	2888.7	800.2	29.3	13.7	5.9	3.9	2.0	0.0	0.0	0.0	0.0
62.5°	3128.7	776.8	27.3	11.7	5.9	3.9	2.0	0.0	0.0	0.0	0.0
65°	3323.9	692.9	23.4	9.8	5.9	3.9	2.0	0.0	0.0	0.0	0.0
67.5°	3331.7	548.5	21.5	7.8	5.9	3.9	2.0	0.0	0.0	0.0	0.0
70°	2970.6	374.7	17.6	5.9	3.9	3.9	2.0	0.0	0.0	0.0	0.0
72.5°	2223.1	201.0	15.6	5.9	3.9	2.0	2.0	0.0	0.0	0.0	0.0
75°	1198.4	78.1	9.8	5.9	3.9	2.0	2.0	0.0	0.0	0.0	0.0
77.5°	349.4	39.0	5.9	3.9	3.9	2.0	2.0	0.0	0.0	0.0	0.0
80°	64.4	19.5	3.9	3.9	3.9	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.6	7.8	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	7.8	3.9	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	2.0	2.0	2.0	2.0	2.0	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)