

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: P595271

Luminaire Tested: **IST-PA1E-727-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595271
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: IST-PA1E-727-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 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: 6927 lumens
Efficiency: N/A
Efficacy: 85.0 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

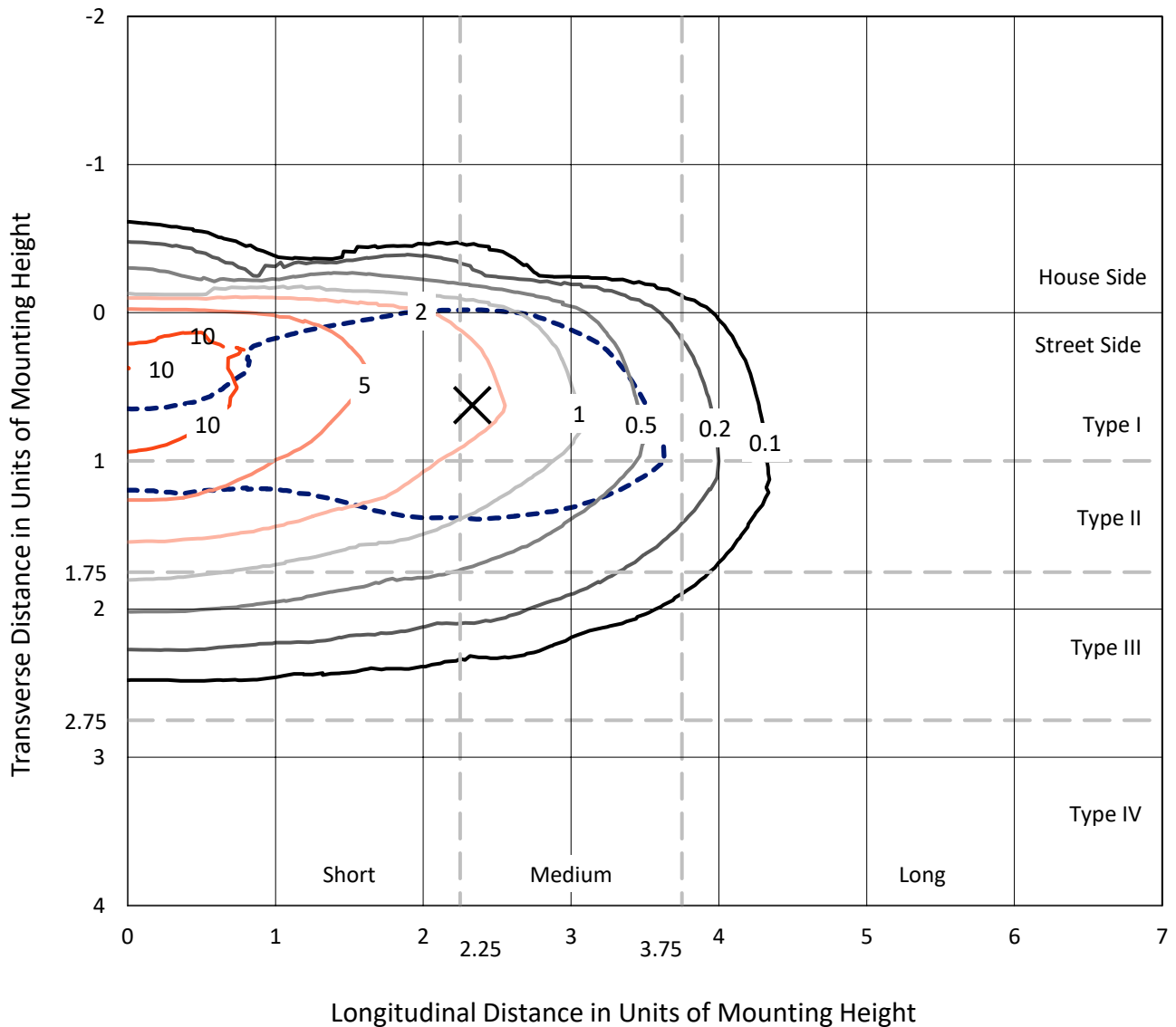
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

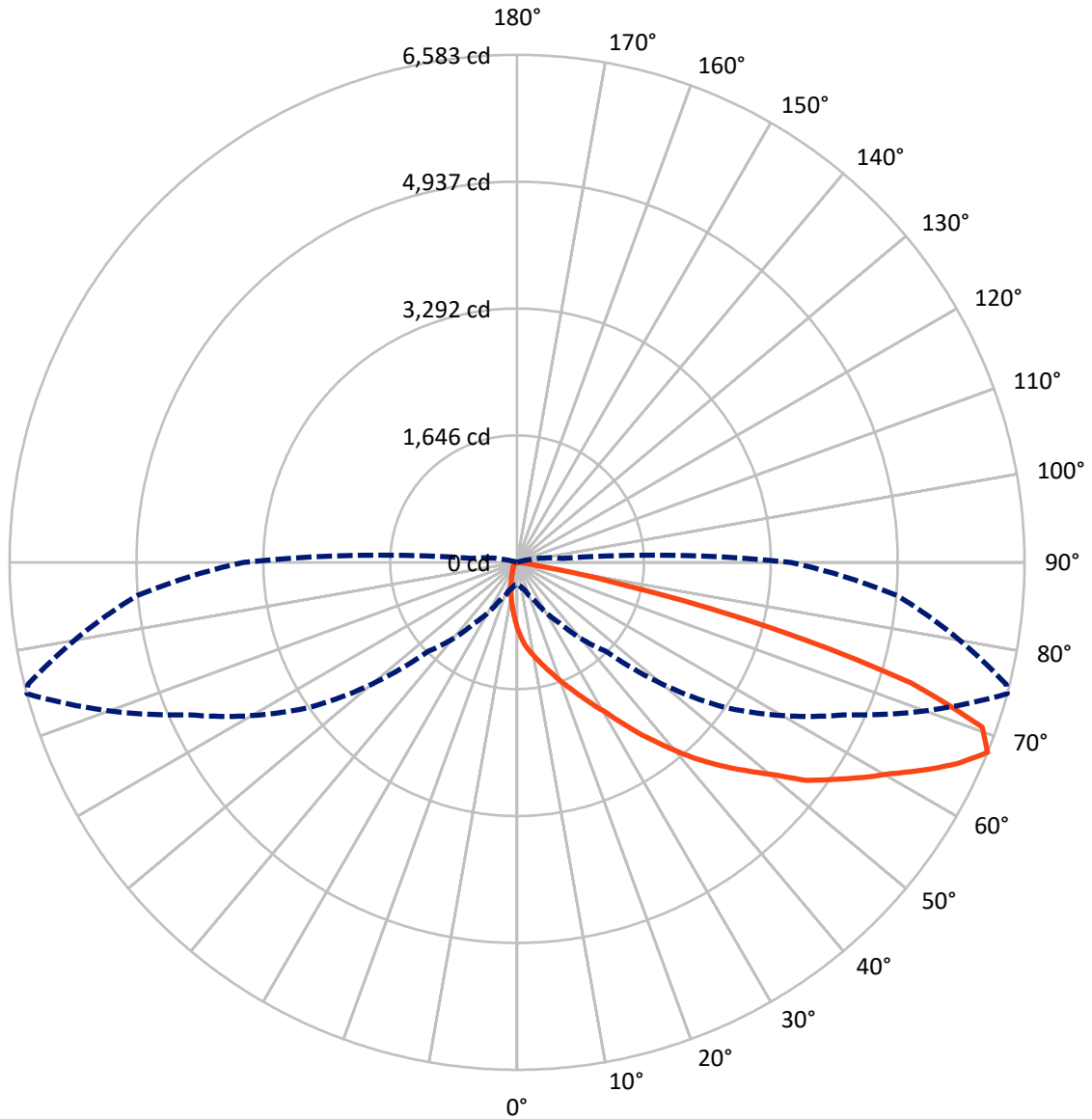
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 13.6 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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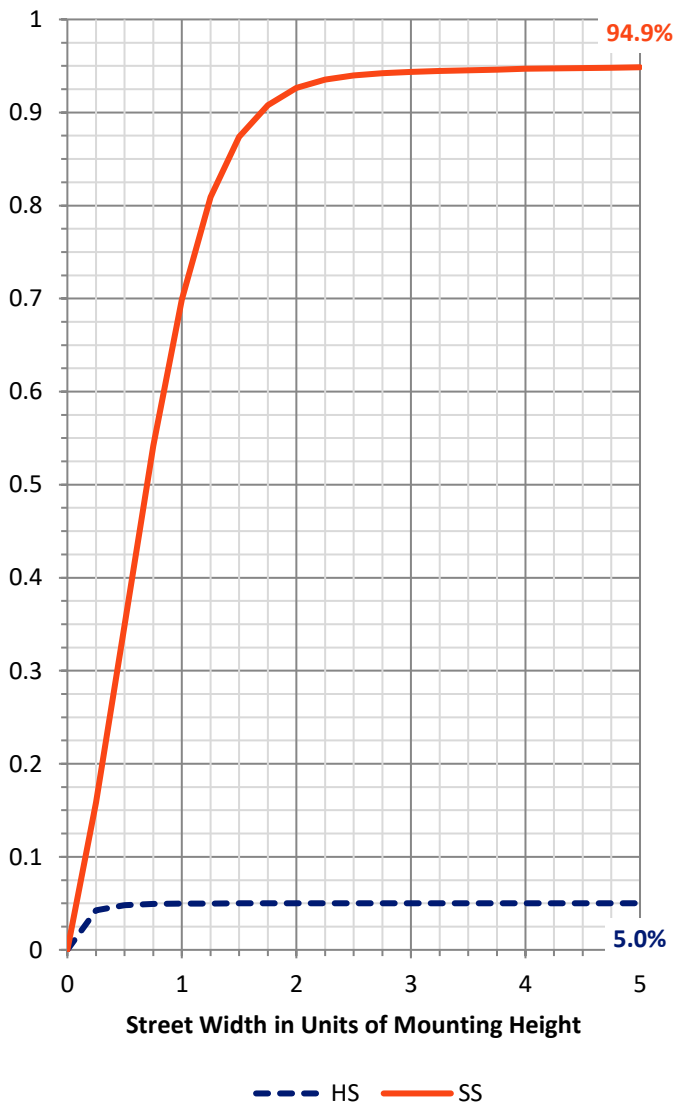
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	349.2	0.0	349.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	6577.8	0.0	6577.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	6927.0	0.0	6927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	1.1
10°-20°	250.6	3.6
20°-30°	503.7	7.3
30°-40°	952.7	13.8
40°-50°	1425.3	20.6
50°-60°	1645.5	23.8
60°-70°	1458.6	21.1
70°-80°	589.6	8.5
80°-90°	23.5	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°	6927.0	100.0
0°-180°	6927.0	100.0

Coefficient of Utilization

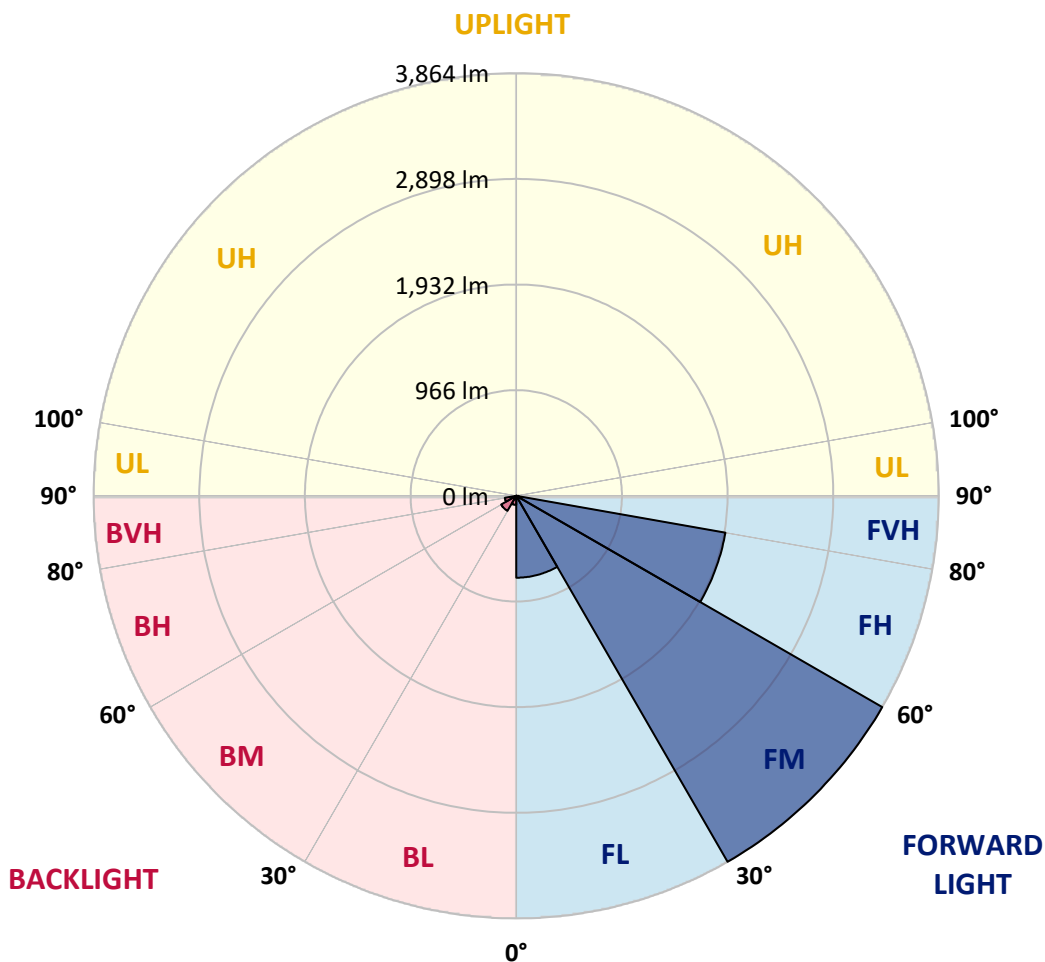


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	748.9	10.8			
FM (30°-60°)	3864.2	55.8			
FH (60°-80°)	1942.3	28.0			G2/5000
FVH (80°-90°)	22.5	0.3			G1/100
BL (0°-30°)	83.0	1.2	B0/110		
BM (30°-60°)	159.3	2.3	B0/220		
BH (60°-80°)	105.9	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°	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9
2.5°	1197.7	1201.9	1193.6	1174.8	1158.2	1118.7	1087.5	1031.4	971.1	971.1	898.3
5°	1339.1	1335.0	1330.8	1316.2	1303.8	1270.5	1228.9	1168.6	1075.0	1066.7	946.1
7.5°	1407.7	1403.6	1395.3	1389.0	1389.0	1366.2	1326.6	1264.3	1160.3	1152.0	989.8
10°	1488.8	1480.5	1480.5	1463.9	1459.7	1432.7	1411.9	1357.8	1243.5	1233.1	1039.7
12.5°	1584.5	1576.2	1578.2	1563.7	1557.5	1528.3	1499.2	1447.2	1332.9	1322.5	1097.9
15°	1638.6	1634.4	1646.9	1648.9	1653.1	1628.2	1601.1	1547.1	1432.7	1418.1	1166.5
17.5°	1669.7	1669.7	1684.3	1711.3	1742.5	1728.0	1707.2	1663.5	1534.6	1526.3	1239.3
20°	1730.0	1723.8	1748.8	1773.7	1813.2	1825.7	1819.5	1786.2	1657.3	1632.3	1318.3
22.5°	1829.9	1821.5	1844.4	1875.6	1923.4	1927.6	1931.7	1915.1	1782.0	1757.1	1401.5
25°	2064.8	2044.0	2023.2	2019.1	2037.8	2054.4	2041.9	2054.4	1923.4	1900.6	1490.9
27.5°	2522.3	2486.9	2387.1	2276.9	2200.0	2214.5	2175.0	2197.9	2085.6	2056.5	1574.1
30°	2961.0	2925.7	2844.6	2649.1	2472.4	2393.4	2335.1	2326.8	2252.0	2218.7	1669.7
32.5°	3266.7	3243.8	3189.8	3058.8	2838.4	2636.7	2524.4	2484.9	2474.5	2422.5	1792.4
35°	3474.6	3453.8	3416.4	3310.4	3148.2	2923.6	2730.2	2642.9	2721.9	2659.5	1931.7
37.5°	3599.4	3584.8	3543.3	3470.5	3383.1	3235.5	2986.0	2846.7	2971.4	2913.2	2110.6
40°	3690.9	3653.5	3624.4	3568.2	3539.1	3491.3	3277.1	3058.8	3241.8	3181.4	2287.3
42.5°	3699.2	3682.6	3659.7	3626.4	3630.6	3661.8	3586.9	3304.1	3514.1	3458.0	2474.5
45°	3697.1	3680.5	3663.9	3630.6	3651.4	3767.8	3836.5	3562.0	3780.3	3722.1	2672.0
47.5°	3636.8	3624.4	3628.5	3628.5	3655.5	3813.6	4029.8	3824.0	4046.5	3990.3	2911.1
50°	3424.7	3437.2	3520.4	3564.1	3611.9	3815.7	4165.0	4098.5	4333.4	4293.9	3141.9
52.5°	2753.1	2823.8	3160.7	3391.5	3530.8	3774.1	4252.3	4387.5	4697.3	4637.0	3403.9
55°	2104.3	2108.5	2432.9	2969.4	3370.7	3699.2	4302.2	4582.9	4973.9	4940.6	3634.8
57.5°	1707.2	1705.1	1865.2	2347.6	2954.8	3580.7	4314.7	4726.4	5267.1	5204.7	3900.9
60°	1395.3	1386.9	1482.6	1779.9	2414.2	3302.1	4269.0	4842.9	5568.6	5545.7	4179.6
62.5°	1008.5	1016.8	1143.7	1374.5	1861.0	2788.4	4171.2	4878.2	5932.5	5909.6	4491.5
65°	580.1	605.1	744.4	989.8	1426.5	2181.3	3892.6	4851.2	6288.0	6286.0	4780.5
67.5°	291.1	293.2	368.0	553.1	958.6	1632.3	3277.1	4680.7	6583.3	6537.6	4946.8
70°	187.1	191.3	216.3	284.9	530.2	1131.2	2503.6	4198.3	6398.2	6381.6	4703.6
72.5°	143.5	147.6	168.4	187.1	276.6	642.5	1694.7	3262.5	5341.9	5296.2	3668.0
75°	112.3	114.4	135.2	151.8	185.1	301.5	850.5	2033.6	3441.4	3322.8	2087.7
77.5°	89.4	91.5	101.9	120.6	141.4	168.4	251.6	914.9	1399.4	1249.7	677.9
80°	58.2	60.3	76.9	93.6	120.6	110.2	97.7	264.1	299.4	270.3	120.6
82.5°	33.3	35.3	52.0	74.9	91.5	62.4	56.1	76.9	70.7	68.6	37.4
85°	10.4	10.4	35.3	52.0	41.6	18.7	35.3	27.0	22.9	20.8	12.5
87.5°	2.1	2.1	16.6	18.7	6.2	2.1	4.2	6.2	8.3	10.4	6.2
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°	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9
2.5°	862.9	821.4	744.4	677.9	613.4	557.3	517.8	482.4	457.5	451.2	440.8
5°	869.2	788.1	640.4	515.7	407.6	320.2	270.3	237.0	220.4	210.0	210.0
7.5°	875.4	754.8	542.7	376.4	257.8	195.5	164.3	149.7	143.5	141.4	139.3
10°	887.9	729.9	459.5	270.3	176.7	147.6	135.2	128.9	124.8	122.7	122.7
12.5°	908.7	709.1	382.6	199.6	145.6	131.0	122.7	114.4	110.2	108.1	108.1
15°	935.7	694.5	316.1	160.1	133.1	118.5	108.1	99.8	93.6	91.5	91.5
17.5°	973.1	684.1	259.9	141.4	122.7	106.0	93.6	85.3	79.0	76.9	76.9
20°	1010.6	684.1	214.2	131.0	112.3	93.6	81.1	70.7	64.5	62.4	62.4
22.5°	1060.5	682.0	178.8	120.6	99.8	81.1	68.6	56.1	52.0	49.9	49.9
25°	1102.1	682.0	153.9	110.2	87.3	70.7	56.1	45.7	41.6	39.5	39.5
27.5°	1152.0	675.8	131.0	97.7	74.9	58.2	45.7	37.4	33.3	31.2	31.2
30°	1195.6	667.5	116.4	87.3	64.5	47.8	37.4	29.1	27.0	27.0	27.0
32.5°	1268.4	661.2	104.0	74.9	54.1	39.5	29.1	22.9	20.8	20.8	20.8
35°	1355.8	661.2	95.7	64.5	45.7	33.3	22.9	18.7	16.6	16.6	16.6
37.5°	1470.1	667.5	85.3	56.1	37.4	27.0	18.7	14.6	12.5	12.5	12.5
40°	1590.7	682.0	76.9	49.9	33.3	20.8	14.6	10.4	8.3	10.4	10.4
42.5°	1734.2	696.6	68.6	43.7	27.0	16.6	10.4	6.2	4.2	6.2	6.2
45°	1875.6	711.1	64.5	37.4	22.9	12.5	6.2	4.2	2.1	4.2	4.2
47.5°	2050.3	746.5	60.3	33.3	18.7	10.4	4.2	2.1	0.0	2.1	2.1
50°	2252.0	786.0	54.1	27.0	14.6	8.3	4.2	0.0	0.0	0.0	0.0
52.5°	2445.3	819.3	47.8	22.9	12.5	6.2	2.1	0.0	0.0	0.0	0.0
55°	2638.7	840.1	41.6	18.7	10.4	6.2	2.1	0.0	0.0	0.0	0.0
57.5°	2846.7	852.5	37.4	16.6	8.3	4.2	2.1	0.0	0.0	0.0	0.0
60°	3077.5	852.5	31.2	14.6	6.2	4.2	2.1	0.0	0.0	0.0	0.0
62.5°	3333.2	827.6	29.1	12.5	6.2	4.2	2.1	0.0	0.0	0.0	0.0
65°	3541.2	738.2	25.0	10.4	6.2	4.2	2.1	0.0	0.0	0.0	0.0
67.5°	3549.5	584.3	22.9	8.3	6.2	4.2	2.1	0.0	0.0	0.0	0.0
70°	3164.8	399.2	18.7	6.2	4.2	4.2	2.1	0.0	0.0	0.0	0.0
72.5°	2368.4	214.2	16.6	6.2	4.2	2.1	2.1	0.0	0.0	0.0	0.0
75°	1276.7	83.2	10.4	6.2	4.2	2.1	2.1	0.0	0.0	0.0	0.0
77.5°	372.2	41.6	6.2	4.2	4.2	2.1	2.1	0.0	0.0	0.0	0.0
80°	68.6	20.8	4.2	4.2	4.2	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	18.7	8.3	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
85°	8.3	4.2	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	2.1	2.1	2.1	2.1	2.1	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)