

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: P595190

Luminaire Tested: **IST-PA1D-727-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595190
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-PA1D-727-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 800mA 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: 5624 lumens
Efficiency: N/A
Efficacy: 90.1 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

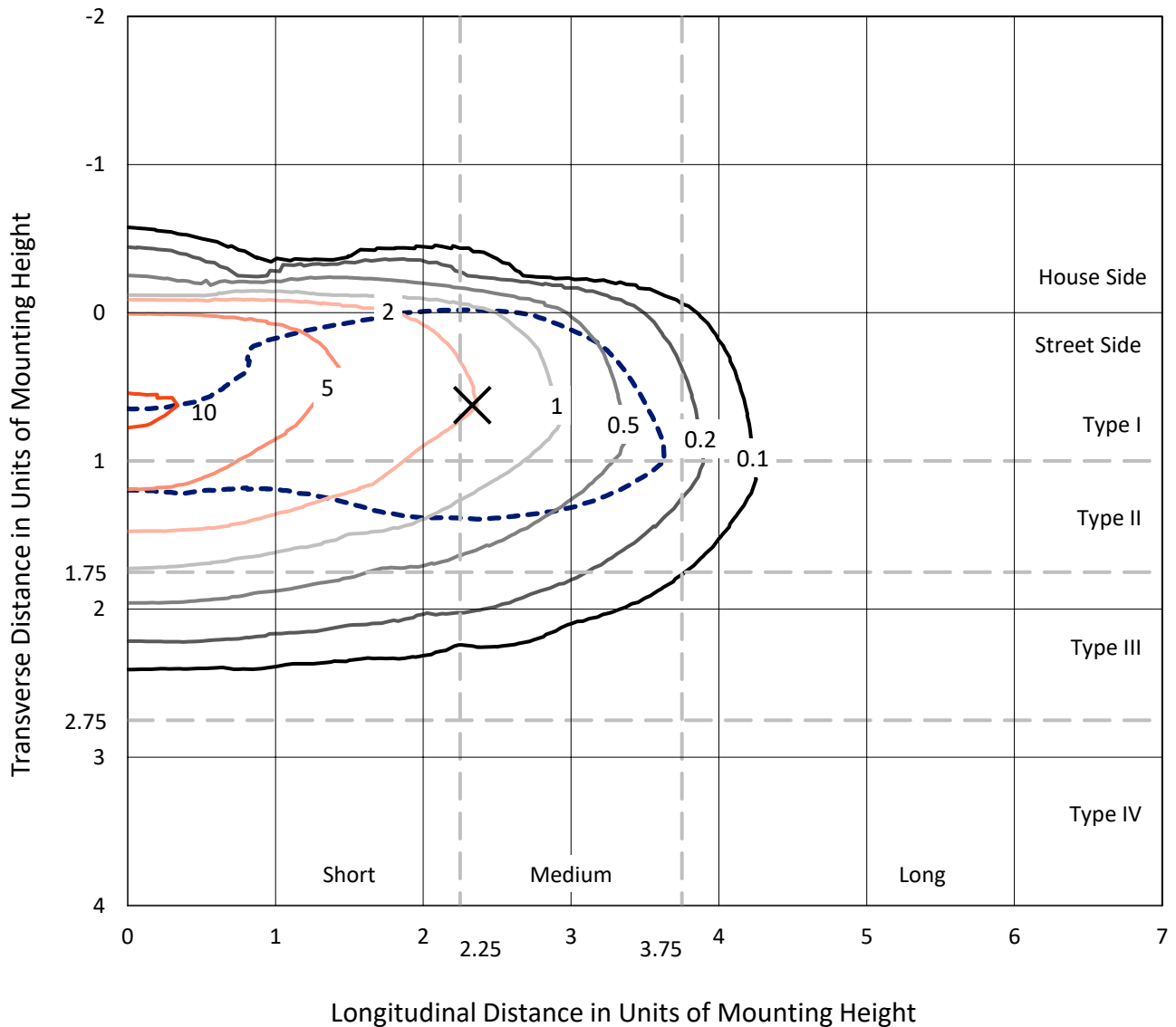
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

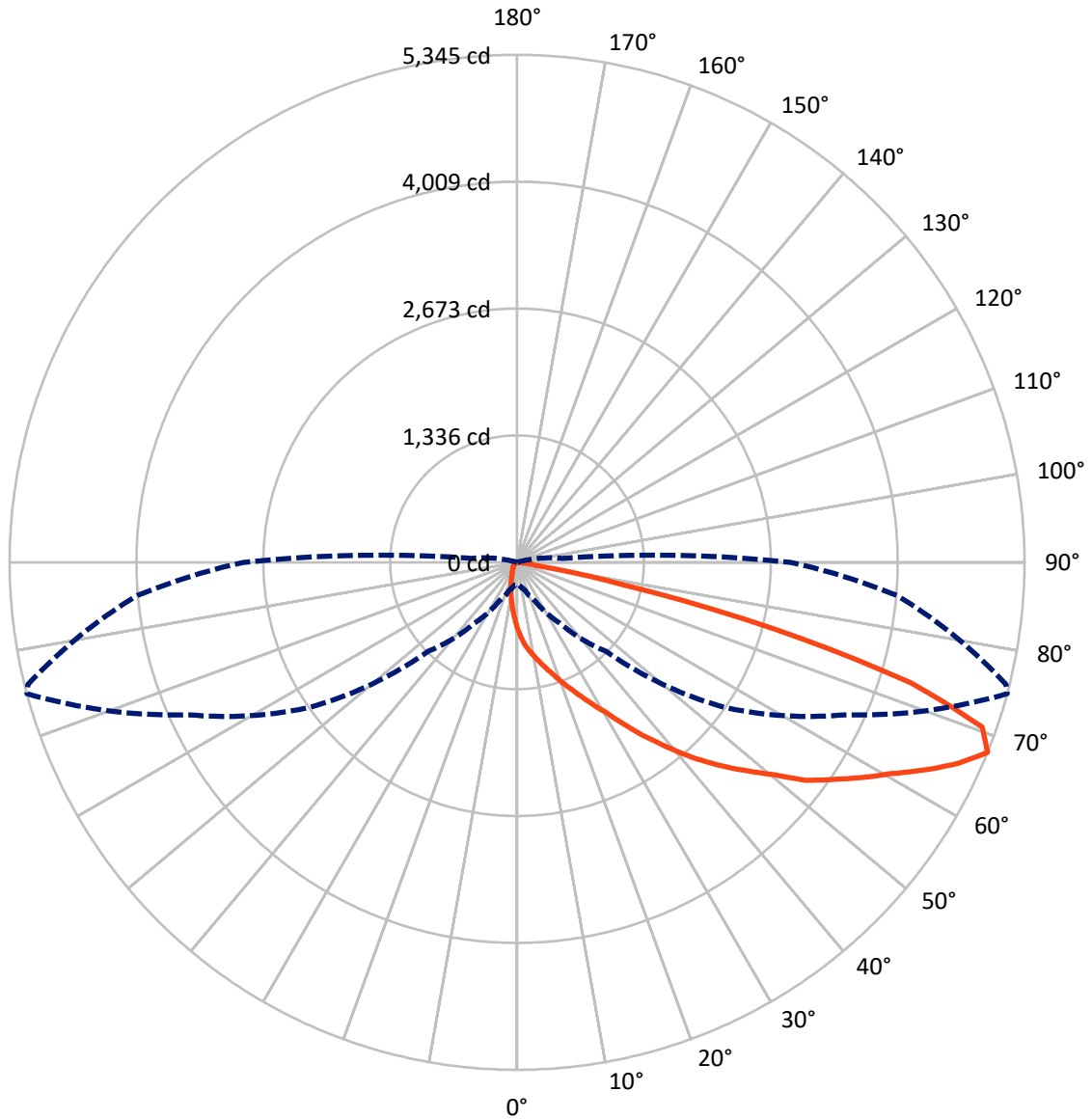
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 11 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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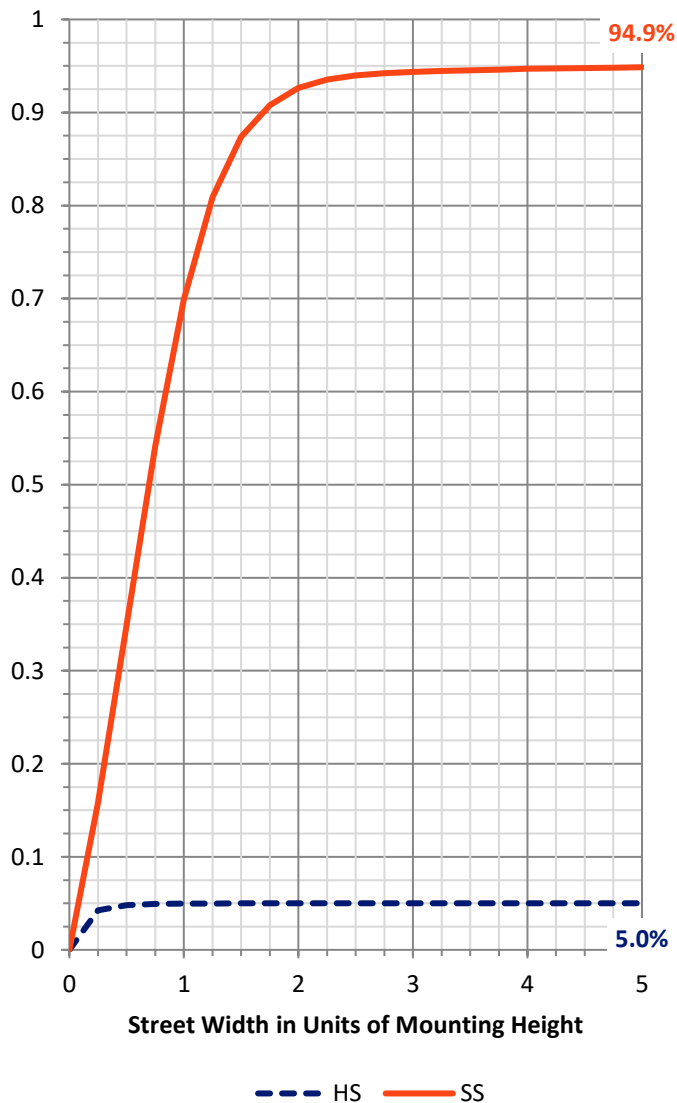
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	283.5	0.0	283.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5340.5	0.0	5340.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	5624.0	0.0	5624.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	1.1
10°-20°	203.4	3.6
20°-30°	408.9	7.3
30°-40°	773.5	13.8
40°-50°	1157.2	20.6
50°-60°	1336.0	23.8
60°-70°	1184.2	21.1
70°-80°	478.7	8.5
80°-90°	19.1	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°	5624.0	100.0
0°-180°	5624.0	100.0

Coefficient of Utilization

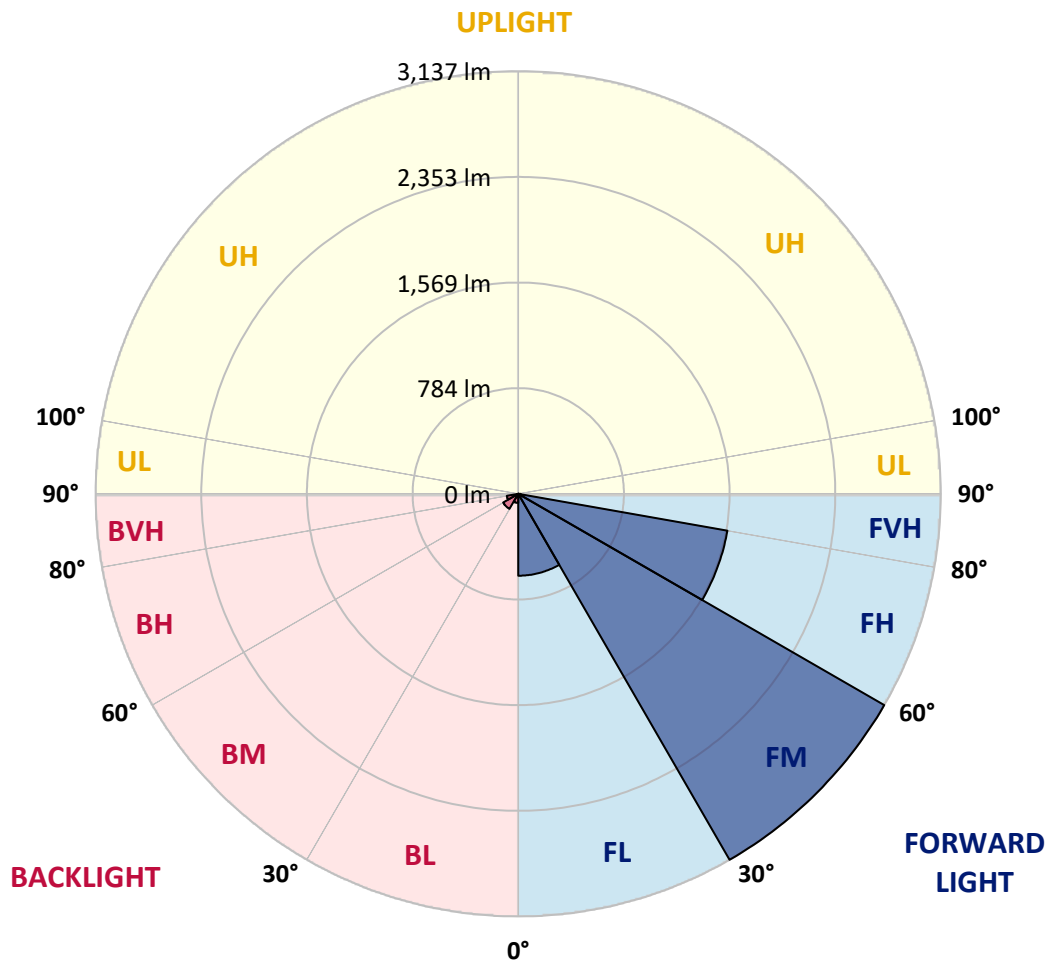


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	608.0	10.8			
FM (30°-60°)	3137.3	55.8			
FH (60°-80°)	1576.9	28.0			G1/1800
FVH (80°-90°)	18.3	0.3			G1/100
BL (0°-30°)	67.4	1.2	B0/110		
BM (30°-60°)	129.3	2.3	B0/220		
BH (60°-80°)	86.0	1.5	B0/110		G0/110
BVH (80°-90°)	0.8	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°	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9
2.5°	972.4	975.8	969.0	953.9	940.3	908.3	882.9	837.4	788.4	788.4	729.3
5°	1087.2	1083.8	1080.5	1068.7	1058.5	1031.5	997.7	948.8	872.8	866.1	768.1
7.5°	1142.9	1139.6	1132.8	1127.7	1127.7	1109.2	1077.1	1026.4	942.0	935.3	803.6
10°	1208.8	1202.0	1202.0	1188.5	1185.1	1163.2	1146.3	1102.4	1009.6	1001.1	844.1
12.5°	1286.4	1279.7	1281.4	1269.6	1264.5	1240.9	1217.2	1175.0	1082.2	1073.7	891.4
15°	1330.3	1327.0	1337.1	1338.8	1342.1	1321.9	1299.9	1256.0	1163.2	1151.4	947.1
17.5°	1355.7	1355.7	1367.5	1389.4	1414.7	1402.9	1386.0	1350.6	1245.9	1239.2	1006.2
20°	1404.6	1399.5	1419.8	1440.1	1472.1	1482.3	1477.2	1450.2	1345.5	1325.3	1070.3
22.5°	1485.6	1478.9	1497.5	1522.8	1561.6	1565.0	1568.4	1554.9	1446.8	1426.6	1137.9
25°	1676.4	1659.5	1642.7	1639.3	1654.5	1668.0	1657.8	1668.0	1561.6	1543.0	1210.5
27.5°	2047.8	2019.1	1938.1	1848.6	1786.2	1798.0	1765.9	1784.5	1693.3	1669.7	1278.0
30°	2404.1	2375.4	2309.5	2150.8	2007.3	1943.2	1895.9	1889.1	1828.4	1801.3	1355.7
32.5°	2652.2	2633.7	2589.8	2483.4	2304.4	2140.7	2049.5	2017.4	2009.0	1966.8	1455.3
35°	2821.0	2804.2	2773.8	2687.7	2556.0	2373.7	2216.7	2145.8	2209.9	2159.3	1568.4
37.5°	2922.3	2910.5	2876.8	2817.7	2746.8	2626.9	2424.3	2311.2	2412.5	2365.2	1713.6
40°	2996.6	2966.2	2942.6	2897.0	2873.4	2834.6	2660.7	2483.4	2632.0	2583.0	1857.1
42.5°	3003.4	2989.9	2971.3	2944.3	2947.7	2973.0	2912.2	2682.6	2853.1	2807.5	2009.0
45°	3001.7	2988.2	2974.7	2947.7	2964.5	3059.1	3114.8	2892.0	3069.2	3021.9	2169.4
47.5°	2952.7	2942.6	2946.0	2946.0	2967.9	3096.2	3271.8	3104.7	3285.3	3239.7	2363.5
50°	2780.5	2790.7	2858.2	2893.6	2932.5	3097.9	3381.5	3327.5	3518.3	3486.2	2550.9
52.5°	2235.2	2292.6	2566.1	2753.5	2866.6	3064.2	3452.4	3562.2	3813.7	3764.8	2763.6
55°	1708.5	1711.9	1975.2	2410.8	2736.6	3003.4	3493.0	3720.9	4038.3	4011.3	2951.0
57.5°	1386.0	1384.4	1514.3	1906.0	2399.0	2907.1	3503.1	3837.4	4276.3	4225.7	3167.1
60°	1132.8	1126.1	1203.7	1445.1	1960.0	2680.9	3466.0	3931.9	4521.1	4502.5	3393.4
62.5°	818.8	825.5	928.5	1115.9	1511.0	2263.9	3386.6	3960.6	4816.5	4798.0	3646.6
65°	471.0	491.3	604.4	803.6	1158.1	1771.0	3160.4	3938.7	5105.2	5103.5	3881.3
67.5°	236.4	238.0	298.8	449.1	778.3	1325.3	2660.7	3800.2	5345.0	5307.8	4016.3
70°	151.9	155.3	175.6	231.3	430.5	918.4	2032.6	3408.6	5194.7	5181.2	3818.8
72.5°	116.5	119.9	136.7	151.9	224.5	521.7	1375.9	2648.8	4337.1	4299.9	2978.1
75°	91.2	92.9	109.7	123.2	150.3	244.8	690.5	1651.1	2794.0	2697.8	1695.0
77.5°	72.6	74.3	82.7	97.9	114.8	136.7	204.3	742.8	1136.2	1014.6	550.4
80°	47.3	49.0	62.5	76.0	97.9	89.5	79.3	214.4	243.1	219.5	97.9
82.5°	27.0	28.7	42.2	60.8	74.3	50.6	45.6	62.5	57.4	55.7	30.4
85°	8.4	8.4	28.7	42.2	33.8	15.2	28.7	21.9	18.6	16.9	10.1
87.5°	1.7	1.7	13.5	15.2	5.1	1.7	3.4	5.1	6.8	8.4	5.1
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°	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9
2.5°	700.6	666.9	604.4	550.4	498.0	452.4	420.4	391.7	371.4	366.3	357.9
5°	705.7	639.8	520.0	418.7	330.9	260.0	219.5	192.5	179.0	170.5	170.5
7.5°	710.7	612.8	440.6	305.6	209.3	158.7	133.4	121.6	116.5	114.8	113.1
10°	720.9	592.6	373.1	219.5	143.5	119.9	109.7	104.7	101.3	99.6	99.6
12.5°	737.8	575.7	310.6	162.1	118.2	106.4	99.6	92.9	89.5	87.8	87.8
15°	759.7	563.9	256.6	130.0	108.0	96.2	87.8	81.0	76.0	74.3	74.3
17.5°	790.1	555.4	211.0	114.8	99.6	86.1	76.0	69.2	64.2	62.5	62.5
20°	820.5	555.4	173.9	106.4	91.2	76.0	65.8	57.4	52.3	50.6	50.6
22.5°	861.0	553.7	145.2	97.9	81.0	65.8	55.7	45.6	42.2	40.5	40.5
25°	894.8	553.7	124.9	89.5	70.9	57.4	45.6	37.1	33.8	32.1	32.1
27.5°	935.3	548.7	106.4	79.3	60.8	47.3	37.1	30.4	27.0	25.3	25.3
30°	970.7	541.9	94.5	70.9	52.3	38.8	30.4	23.6	21.9	21.9	21.9
32.5°	1029.8	536.9	84.4	60.8	43.9	32.1	23.6	18.6	16.9	16.9	16.9
35°	1100.7	536.9	77.7	52.3	37.1	27.0	18.6	15.2	13.5	13.5	13.5
37.5°	1193.6	541.9	69.2	45.6	30.4	21.9	15.2	11.8	10.1	10.1	10.1
40°	1291.5	553.7	62.5	40.5	27.0	16.9	11.8	8.4	6.8	8.4	8.4
42.5°	1408.0	565.6	55.7	35.5	21.9	13.5	8.4	5.1	3.4	5.1	5.1
45°	1522.8	577.4	52.3	30.4	18.6	10.1	5.1	3.4	1.7	3.4	3.4
47.5°	1664.6	606.1	49.0	27.0	15.2	8.4	3.4	1.7	0.0	1.7	1.7
50°	1828.4	638.2	43.9	21.9	11.8	6.8	3.4	0.0	0.0	0.0	0.0
52.5°	1985.4	665.2	38.8	18.6	10.1	5.1	1.7	0.0	0.0	0.0	0.0
55°	2142.4	682.0	33.8	15.2	8.4	5.1	1.7	0.0	0.0	0.0	0.0
57.5°	2311.2	692.2	30.4	13.5	6.8	3.4	1.7	0.0	0.0	0.0	0.0
60°	2498.6	692.2	25.3	11.8	5.1	3.4	1.7	0.0	0.0	0.0	0.0
62.5°	2706.2	671.9	23.6	10.1	5.1	3.4	1.7	0.0	0.0	0.0	0.0
65°	2875.1	599.3	20.3	8.4	5.1	3.4	1.7	0.0	0.0	0.0	0.0
67.5°	2881.8	474.4	18.6	6.8	5.1	3.4	1.7	0.0	0.0	0.0	0.0
70°	2569.5	324.1	15.2	5.1	3.4	3.4	1.7	0.0	0.0	0.0	0.0
72.5°	1922.9	173.9	13.5	5.1	3.4	1.7	1.7	0.0	0.0	0.0	0.0
75°	1036.6	67.5	8.4	5.1	3.4	1.7	1.7	0.0	0.0	0.0	0.0
77.5°	302.2	33.8	5.1	3.4	3.4	1.7	1.7	0.0	0.0	0.0	0.0
80°	55.7	16.9	3.4	3.4	3.4	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	15.2	6.8	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0
85°	6.8	3.4	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	1.7	1.7	1.7	1.7	1.7	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)