

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: P595192

Luminaire Tested: **IST-PA1D-727-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)
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-T2U-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4911 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

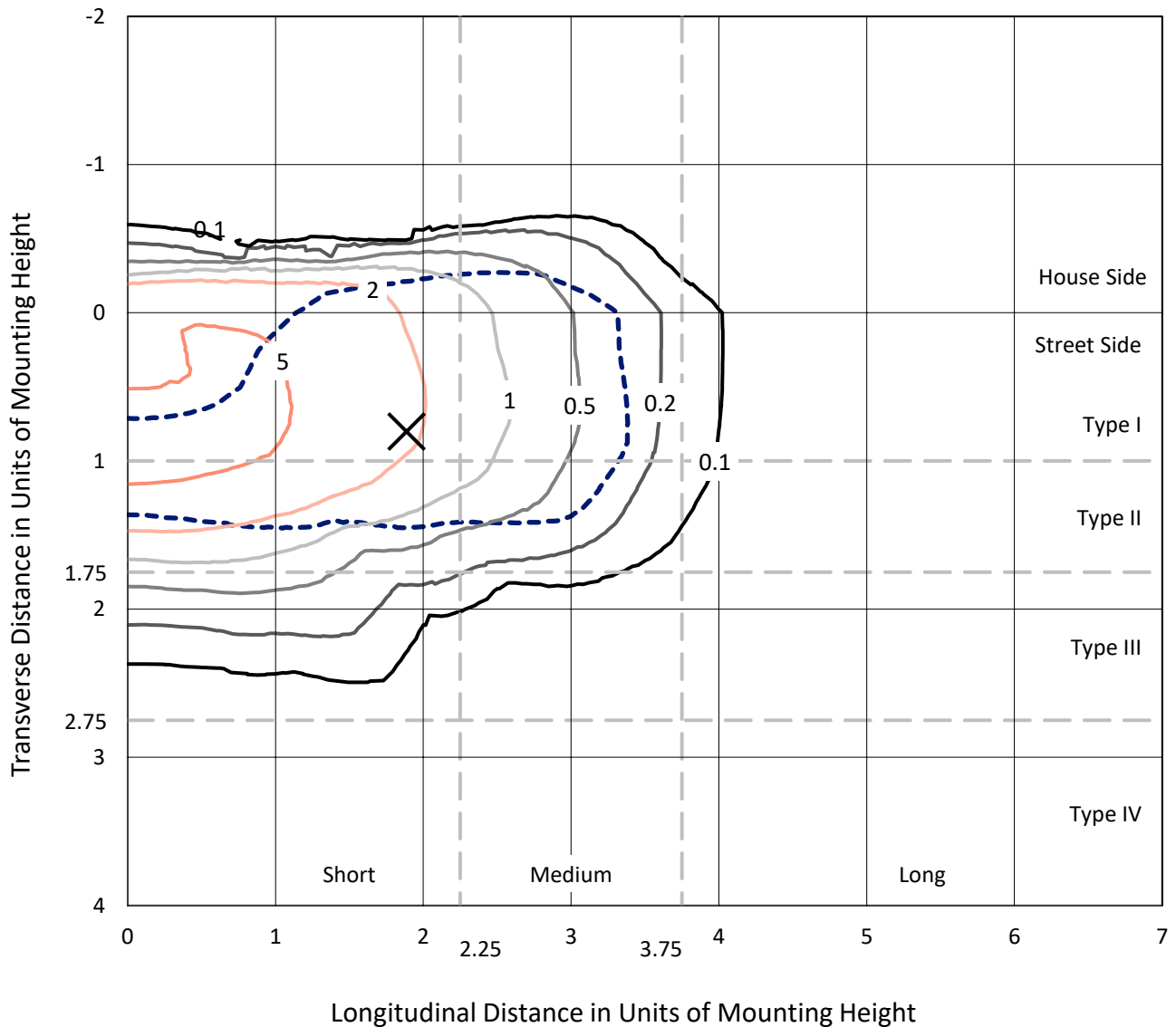
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

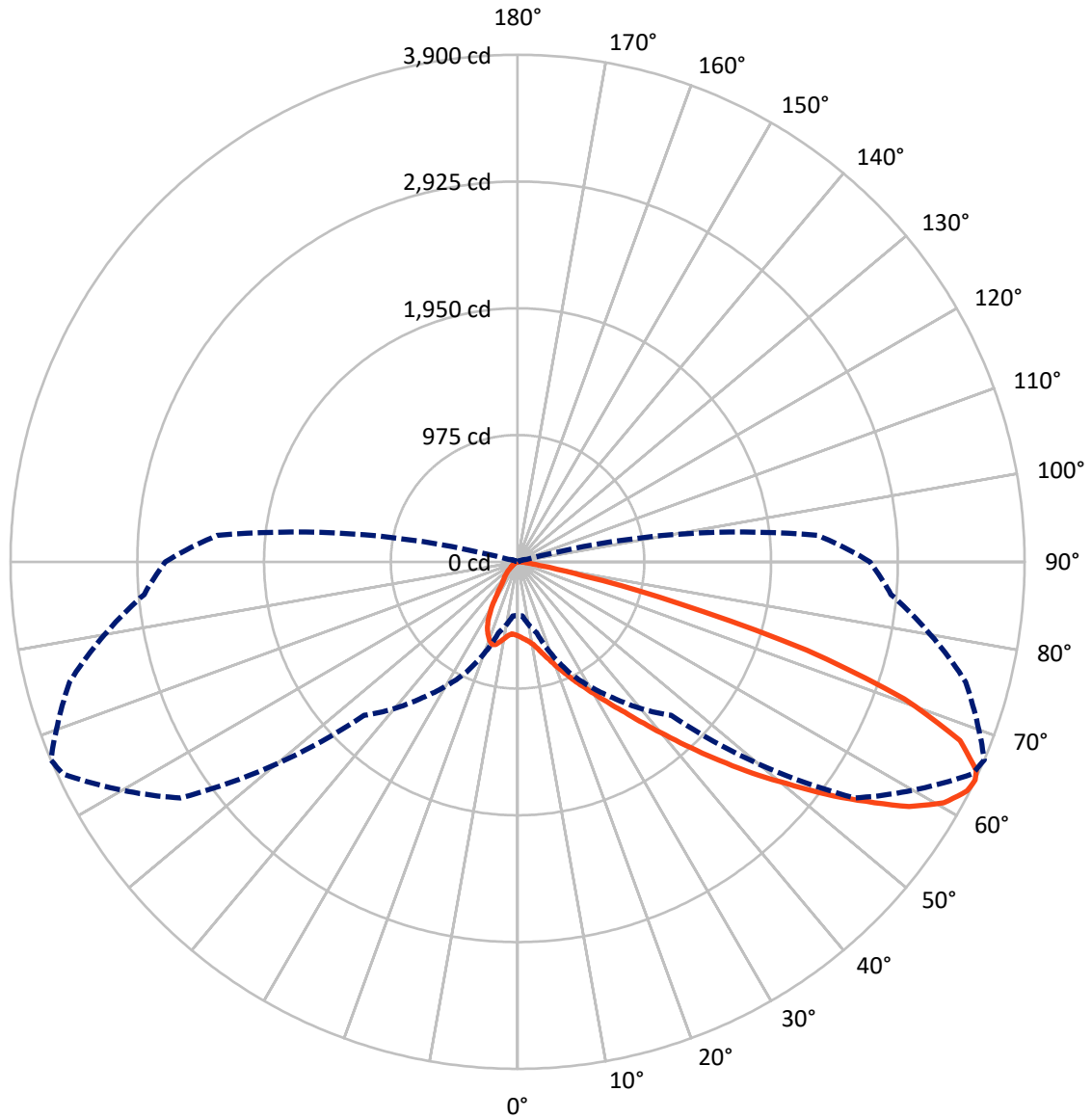
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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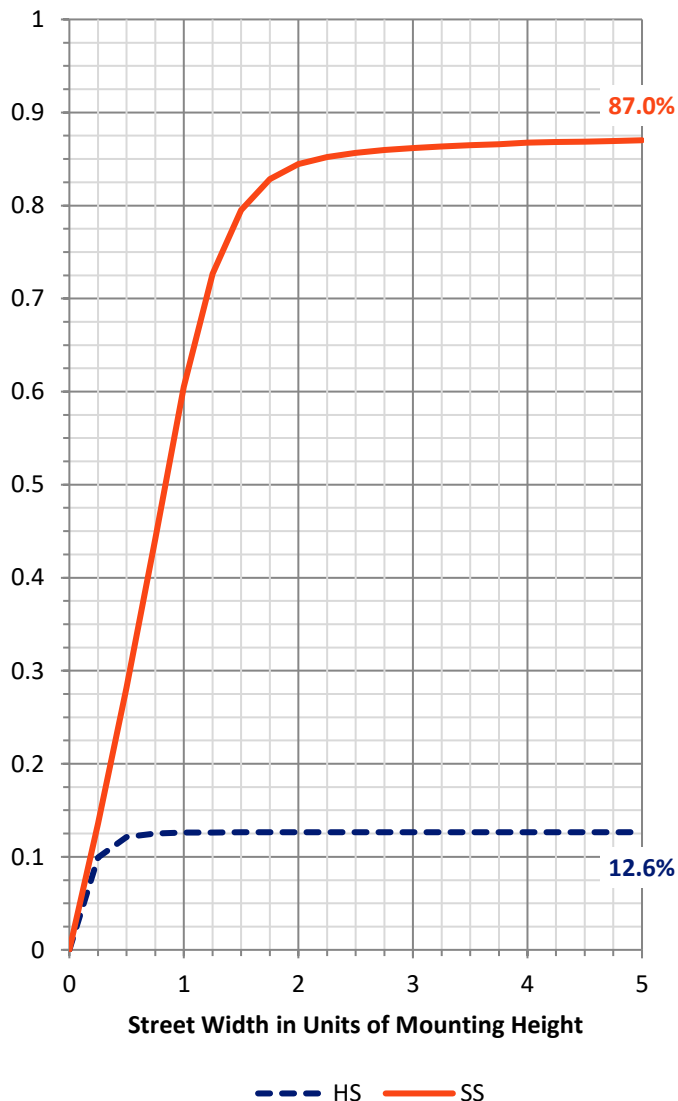
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	628.2	0.0	628.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4282.8	0.0	4282.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	4911.0	0.0	4911.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	1.1
10°-20°	159.8	3.3
20°-30°	289.9	5.9
30°-40°	555.3	11.3
40°-50°	1023.5	20.8
50°-60°	1321.9	26.9
60°-70°	1082.8	22.0
70°-80°	398.0	8.1
80°-90°	25.7	0.5
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°	4911.0	100.0
0°-180°	4911.0	100.0

Coefficient of Utilization



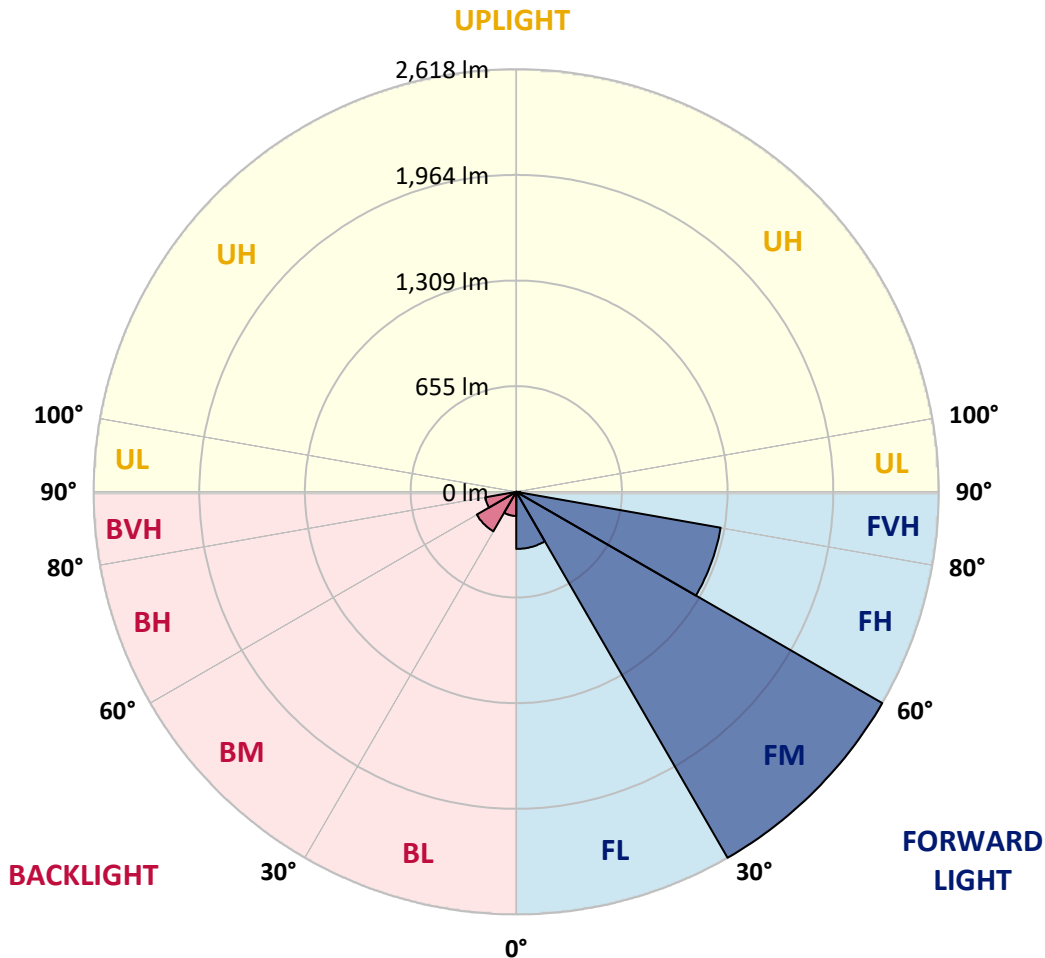
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	354.1	7.2			
FM (30°-60°)	2618.3	53.3			
FH (60°-80°)	1285.9	26.2			G1/1800
FVH (80°-90°)	24.5	0.5			G1/100
BL (0°-30°)	149.7	3.0	B1/500		
BM (30°-60°)	282.5	5.8	B1/1000		
BH (60°-80°)	194.9	4.0	B1/500		G1/500
BVH (80°-90°)	1.2	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	570.6	570.6	570.6	570.6	570.6	570.6	570.6	570.6	570.6	570.6	570.6
2.5°	590.9	590.9	594.3	592.6	592.6	589.2	584.1	585.8	584.1	582.5	577.4
5°	580.8	582.5	584.1	587.5	594.3	597.6	597.6	599.3	599.3	597.6	590.9
7.5°	575.7	579.1	582.5	585.8	594.3	599.3	607.8	617.9	617.9	619.6	612.8
10°	594.3	597.6	602.7	607.8	616.2	624.7	631.4	643.2	643.2	646.6	644.9
12.5°	633.1	633.1	634.8	638.2	650.0	660.1	671.9	682.1	683.7	685.4	680.4
15°	680.4	680.4	682.1	682.1	688.8	704.0	726.0	736.1	734.4	732.7	722.6
17.5°	734.4	734.4	734.4	736.1	739.5	747.9	773.2	793.5	791.8	790.1	769.8
20°	785.0	788.4	791.8	793.5	796.9	803.6	830.6	854.3	859.3	852.6	817.1
22.5°	842.4	844.1	845.8	850.9	859.3	862.7	889.7	925.2	930.2	921.8	874.5
25°	899.8	903.2	908.3	915.0	923.5	940.4	958.9	1006.2	1011.3	1001.1	937.0
27.5°	1026.5	1024.8	1009.6	997.8	999.5	1011.3	1036.6	1087.2	1092.3	1082.2	999.5
30°	1242.6	1222.3	1193.6	1141.3	1090.6	1095.7	1131.1	1180.1	1188.5	1175.0	1068.7
32.5°	1549.8	1529.6	1458.7	1343.9	1232.4	1195.3	1240.9	1288.1	1298.3	1283.1	1149.7
35°	1848.7	1843.6	1776.1	1637.6	1448.5	1345.5	1357.4	1418.1	1421.5	1402.9	1251.0
37.5°	2218.4	2199.8	2107.0	1951.6	1728.8	1544.8	1511.0	1568.4	1576.8	1554.9	1374.2
40°	2463.2	2456.4	2400.7	2291.0	2051.2	1820.0	1698.4	1754.1	1752.4	1720.3	1516.1
42.5°	2605.0	2608.4	2605.0	2552.7	2415.9	2150.9	1946.6	1949.9	1955.0	1921.2	1679.8
45°	2701.2	2701.2	2706.3	2748.5	2696.2	2545.9	2248.8	2172.8	2179.6	2127.2	1850.3
47.5°	2699.5	2709.7	2736.7	2834.6	2905.5	2913.9	2626.9	2432.8	2429.4	2350.1	2025.9
50°	2517.2	2510.5	2621.9	2841.4	3054.1	3217.8	2984.9	2708.0	2679.3	2581.4	2208.3
52.5°	2107.0	2128.9	2314.6	2637.1	3089.5	3423.8	3293.8	3008.5	2971.3	2811.0	2368.6
55°	1749.0	1772.7	1953.3	2269.0	2897.1	3496.4	3501.5	3327.6	3253.3	3010.2	2534.1
57.5°	1313.5	1359.1	1625.8	1922.9	2475.0	3315.8	3575.7	3633.1	3552.1	3202.6	2669.1
60°	839.1	866.1	1164.9	1531.3	2005.7	2843.0	3560.6	3810.4	3766.5	3378.2	2782.3
62.5°	548.7	563.9	769.8	1153.1	1527.9	2142.4	3379.9	3881.3	3881.3	3496.4	2866.7
64°	413.6	417.0	563.9	937.0	1274.6	1669.7	3167.2	3859.4	3899.9	3567.3	2883.6
65°	327.5	329.2	440.6	778.3	1144.6	1369.2	2981.5	3812.1	3877.9	3594.3	2893.7
67.5°	229.6	234.7	285.3	449.1	820.5	790.1	2209.9	3589.3	3670.3	3602.8	2880.2
70°	199.2	206.0	239.7	293.8	585.8	459.2	1175.0	3059.1	3155.4	3356.3	2681.0
72.5°	151.9	160.4	200.9	248.2	411.9	310.6	454.1	2172.8	2324.7	2594.9	2213.3
75°	109.7	113.1	148.6	202.6	288.7	239.7	195.8	1121.0	1274.6	1531.3	1375.9
77.5°	69.2	74.3	101.3	151.9	258.3	182.3	116.5	408.6	514.9	666.9	601.0
80°	40.5	42.2	60.8	104.7	173.9	135.1	74.3	145.2	175.6	248.2	160.4
82.5°	23.6	25.3	38.8	70.9	113.1	104.7	47.3	74.3	82.7	94.5	33.8
85°	8.4	8.4	27.0	42.2	60.8	52.3	27.0	38.8	42.2	52.3	10.1
87.5°	1.7	1.7	13.5	21.9	21.9	8.4	13.5	16.9	20.3	28.7	3.4
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°	570.6	570.6	570.6	570.6	570.6	570.6	570.6	570.6	570.6	570.6	570.6
2.5°	575.7	570.6	565.6	558.8	553.8	543.6	538.6	531.8	530.1	526.7	525.1
5°	589.2	580.8	568.9	552.1	541.9	526.7	516.6	506.5	504.8	501.4	499.7
7.5°	607.8	599.3	584.1	565.6	548.7	533.5	521.7	506.5	491.3	479.5	479.5
10°	638.2	628.0	607.8	590.9	570.6	538.6	482.8	432.2	400.1	379.9	373.1
12.5°	675.3	661.8	639.9	619.6	580.8	479.5	393.4	327.5	273.5	248.2	243.1
15°	714.1	702.3	680.4	650.0	533.5	400.1	287.0	185.7	133.4	109.7	113.1
17.5°	756.3	739.5	714.1	653.4	469.3	298.8	153.6	94.5	81.0	77.7	77.7
20°	800.2	778.3	753.0	616.2	386.6	172.2	87.8	70.9	65.8	60.8	62.5
22.5°	847.5	820.5	781.7	560.5	276.9	92.9	67.5	57.4	50.6	49.0	49.0
25°	898.2	859.3	810.4	496.4	160.4	70.9	55.7	45.6	40.5	38.8	37.1
27.5°	952.2	903.2	817.1	411.9	91.2	59.1	43.9	35.5	30.4	28.7	28.7
30°	1001.1	947.1	801.9	305.6	69.2	49.0	35.5	27.0	23.6	23.6	23.6
32.5°	1067.0	996.1	754.7	190.8	55.7	38.8	27.0	21.9	18.6	18.6	18.6
35°	1153.1	1068.7	707.4	101.3	45.6	32.1	21.9	16.9	15.2	15.2	15.2
37.5°	1271.3	1164.9	665.2	64.2	37.1	25.3	16.9	13.5	11.8	11.8	11.8
40°	1392.8	1279.7	606.1	49.0	30.4	20.3	13.5	10.1	8.4	8.4	10.1
42.5°	1544.8	1413.1	538.6	42.2	25.3	16.9	10.1	6.8	5.1	6.8	6.8
45°	1698.4	1553.2	444.0	35.5	21.9	13.5	6.8	3.4	3.4	5.1	5.1
47.5°	1857.1	1701.8	344.4	30.4	18.6	10.1	5.1	1.7	1.7	3.4	3.4
50°	2020.9	1848.7	256.6	27.0	15.2	8.4	3.4	1.7	0.0	1.7	1.7
52.5°	2184.6	1990.5	199.2	23.6	13.5	6.8	1.7	0.0	0.0	0.0	1.7
55°	2336.6	2118.8	158.7	20.3	11.8	5.1	1.7	0.0	0.0	0.0	0.0
57.5°	2464.9	2213.3	126.6	18.6	10.1	3.4	1.7	0.0	0.0	0.0	0.0
60°	2586.4	2287.6	97.9	15.2	8.4	3.4	1.7	0.0	0.0	0.0	0.0
62.5°	2672.5	2316.3	79.3	13.5	6.8	3.4	0.0	0.0	0.0	0.0	0.0
64°	2709.7	2319.7	69.2	11.8	6.8	3.4	1.7	0.0	0.0	0.0	0.0
65°	2731.6	2309.5	64.2	11.8	6.8	3.4	1.7	0.0	0.0	0.0	0.0
67.5°	2736.7	2253.8	49.0	10.1	5.1	1.7	1.7	0.0	0.0	0.0	0.0
70°	2588.1	2059.7	35.5	6.8	3.4	1.7	0.0	0.0	0.0	0.0	0.0
72.5°	2162.7	1573.5	23.6	5.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0
75°	1350.6	680.4	13.5	5.1	1.7	1.7	0.0	0.0	0.0	0.0	0.0
77.5°	558.8	206.0	8.4	3.4	1.7	1.7	0.0	0.0	0.0	0.0	0.0
80°	128.3	49.0	3.4	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	30.4	8.4	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0
85°	6.8	1.7	1.7	1.7	1.7	0.0	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)