

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: P595336

Luminaire Tested: **IST-PA1E-830-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595336
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-PA1E-830-U-T2U-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 1050mA 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: 5748 lumens
Efficiency: N/A
Efficacy: 70.5 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

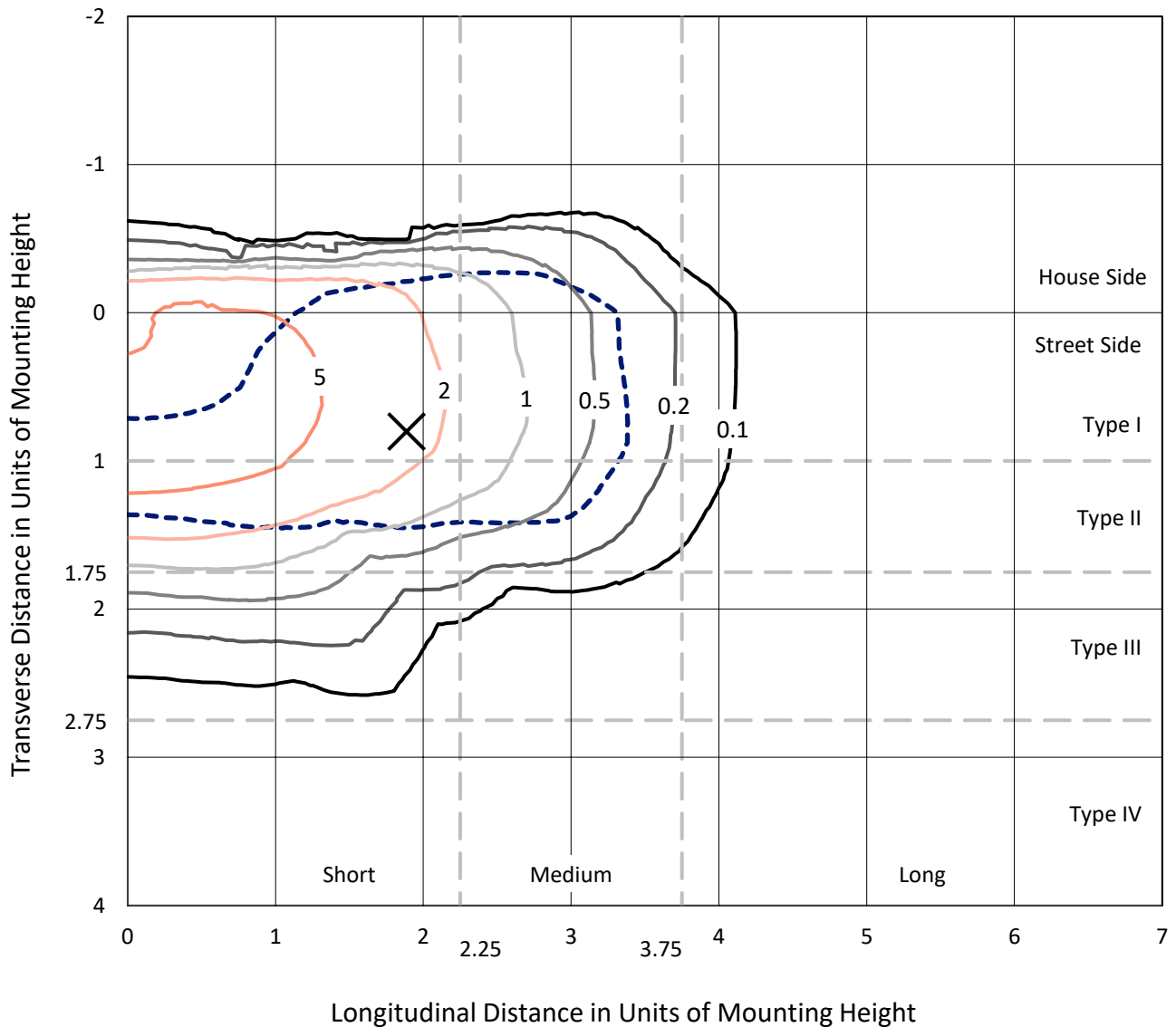
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

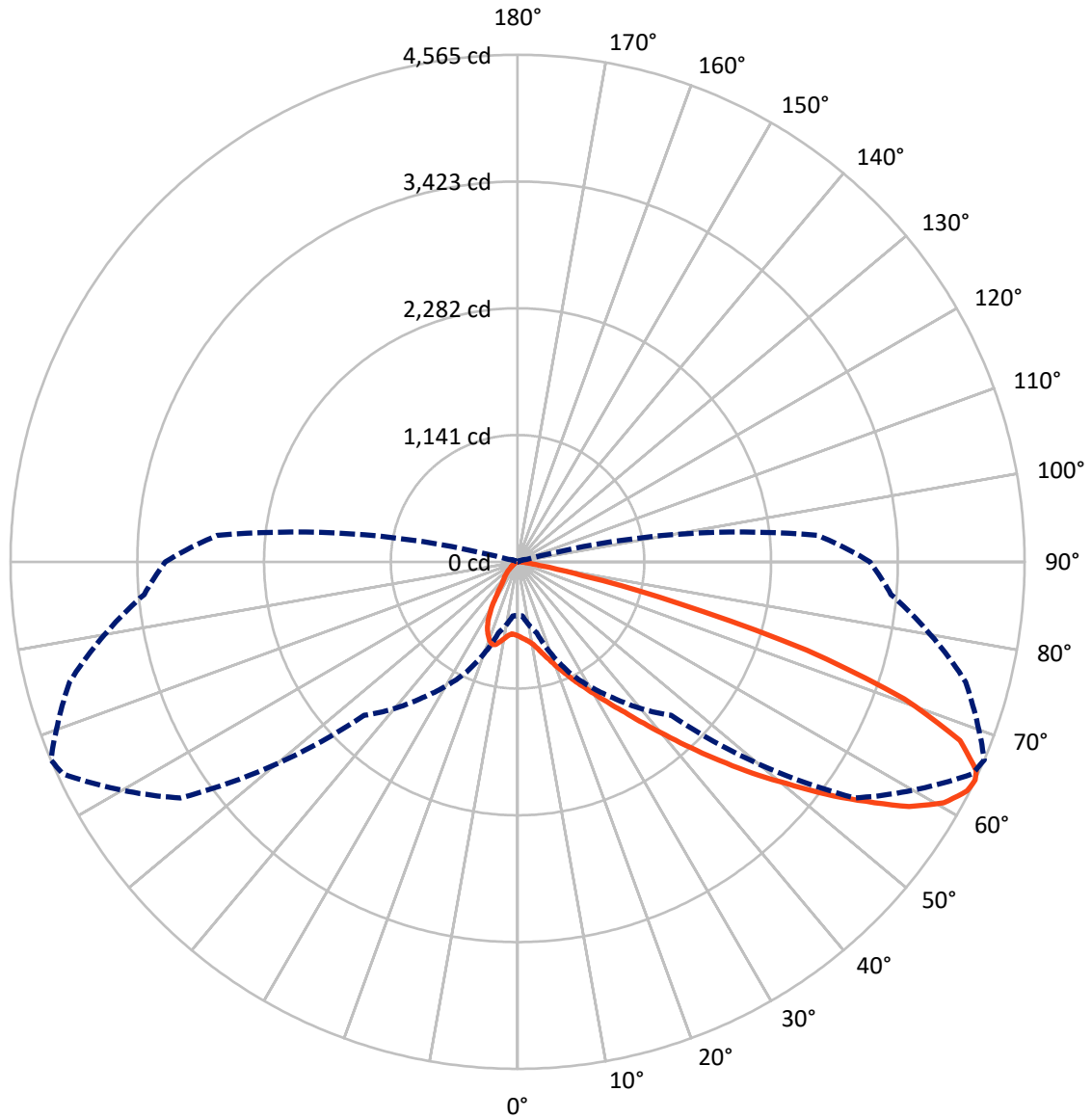
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.8 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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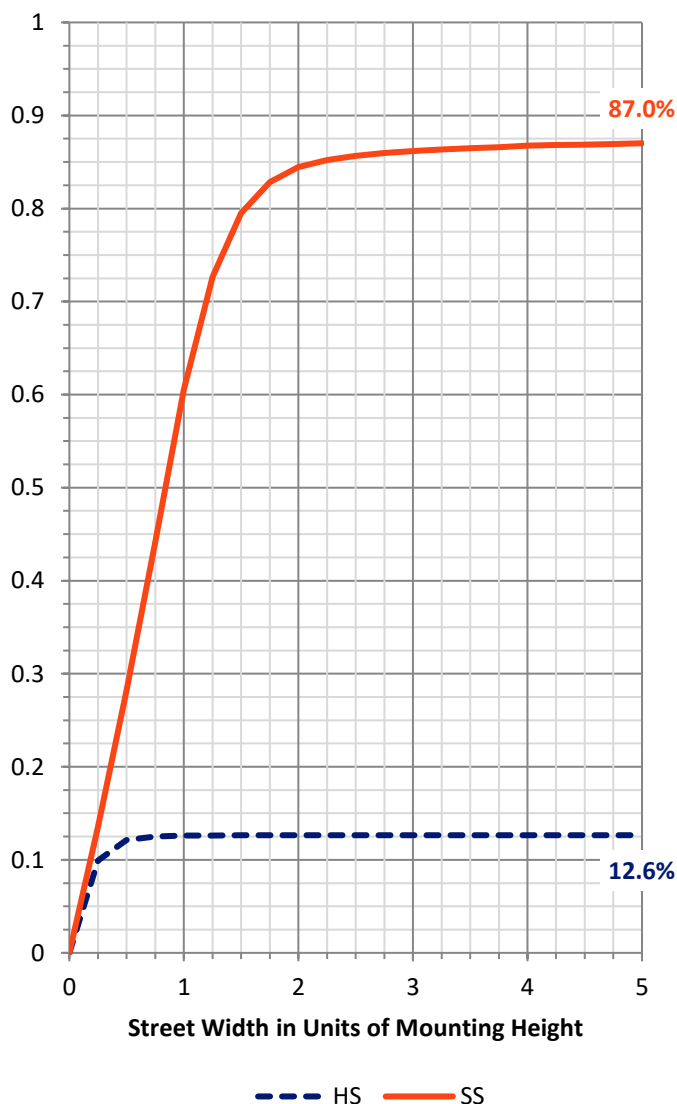
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	735.3	0.0	735.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	5012.7	0.0	5012.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	5748.0	0.0	5748.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	1.1
10°-20°	187.0	3.3
20°-30°	339.3	5.9
30°-40°	650.0	11.3
40°-50°	1197.9	20.8
50°-60°	1547.2	26.9
60°-70°	1267.3	22.0
70°-80°	465.9	8.1
80°-90°	30.0	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°	5748.0	100.0
0°-180°	5748.0	100.0

Coefficient of Utilization

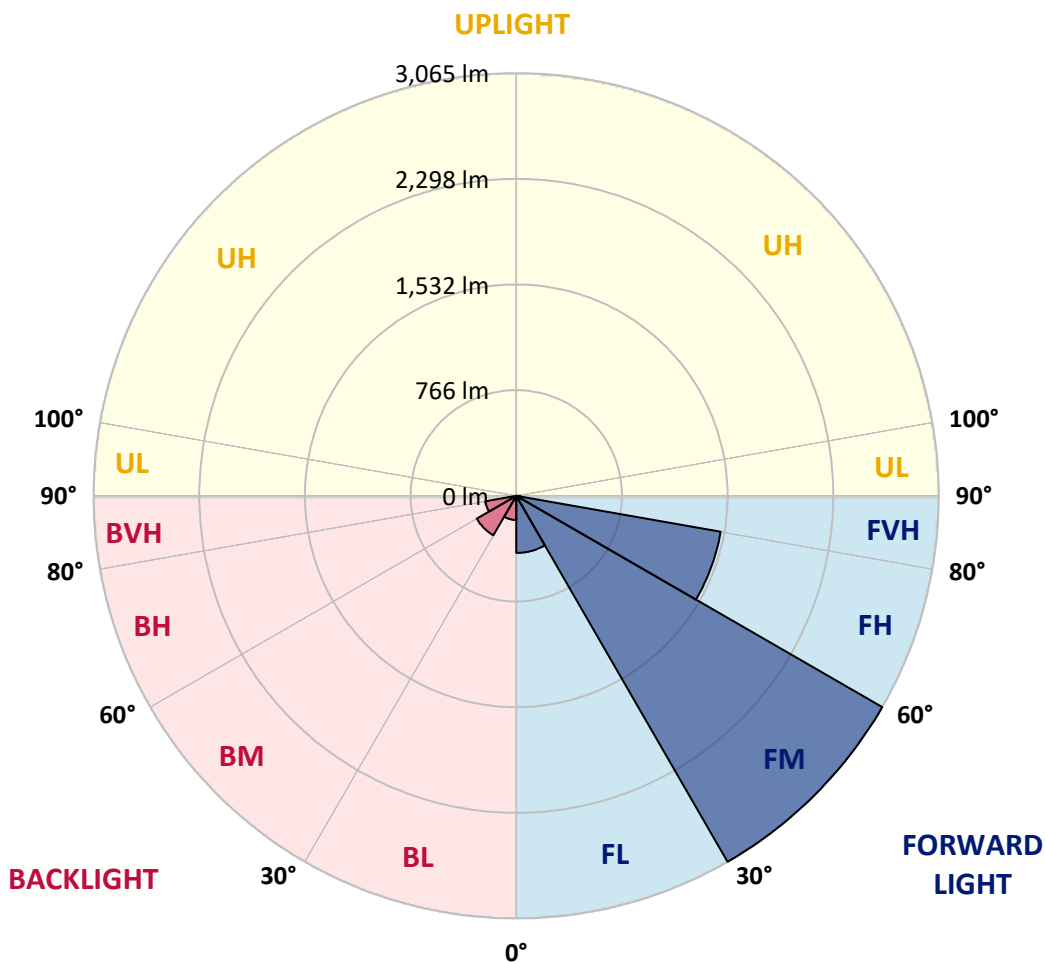


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	414.4	7.2			
FM (30°-60°)	3064.5	53.3			
FH (60°-80°)	1505.1	26.2			G1/1800
FVH (80°-90°)	28.7	0.5			G1/100
BL (0°-30°)	175.2	3.0	B1/500		
BM (30°-60°)	330.6	5.8	B1/1000		
BH (60°-80°)	228.1	4.0	B1/500		G1/500
BVH (80°-90°)	1.4	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°	667.9	667.9	667.9	667.9	667.9	667.9	667.9	667.9	667.9	667.9	667.9
2.5°	691.6	691.6	695.6	693.6	693.6	689.6	683.7	685.7	683.7	681.7	675.8
5°	679.7	681.7	683.7	687.6	695.6	699.5	699.5	701.5	701.5	699.5	691.6
7.5°	673.8	677.8	681.7	685.7	695.6	701.5	711.4	723.2	723.2	725.2	717.3
10°	695.6	699.5	705.4	711.4	721.2	731.1	739.0	752.9	752.9	756.8	754.8
12.5°	741.0	741.0	743.0	746.9	760.8	772.6	786.4	798.3	800.3	802.3	796.3
15°	796.3	796.3	798.3	798.3	806.2	824.0	849.7	861.5	859.6	857.6	845.7
17.5°	859.6	859.6	859.6	861.5	865.5	875.4	905.0	928.7	926.7	924.8	901.1
20°	918.8	922.8	926.7	928.7	932.7	940.6	972.2	999.9	1005.8	997.9	956.4
22.5°	986.0	988.0	990.0	995.9	1005.8	1009.7	1041.4	1082.8	1088.8	1078.9	1023.6
25°	1053.2	1057.2	1063.1	1071.0	1080.9	1100.6	1122.4	1177.7	1183.6	1171.8	1096.7
27.5°	1201.4	1199.4	1181.7	1167.8	1169.8	1183.6	1213.3	1272.5	1278.5	1266.6	1169.8
30°	1454.3	1430.6	1397.0	1335.8	1276.5	1282.4	1323.9	1381.2	1391.1	1375.3	1250.8
32.5°	1814.0	1790.3	1707.3	1572.9	1442.5	1399.0	1452.4	1507.7	1519.5	1501.8	1345.7
35°	2163.7	2157.8	2078.8	1916.7	1695.4	1574.9	1588.7	1659.8	1663.8	1642.1	1464.2
37.5°	2596.5	2574.7	2466.1	2284.3	2023.4	1808.0	1768.5	1835.7	1845.6	1819.9	1608.5
40°	2883.0	2875.1	2809.9	2681.4	2400.8	2130.1	1987.9	2053.1	2051.1	2013.5	1774.5
42.5°	3049.0	3052.9	3049.0	2987.7	2827.7	2517.4	2278.3	2282.3	2288.2	2248.7	1966.1
45°	3161.6	3161.6	3167.5	3216.9	3155.7	2979.8	2632.0	2543.1	2551.0	2489.8	2165.7
47.5°	3159.6	3171.5	3203.1	3317.7	3400.7	3410.6	3074.7	2847.4	2843.5	2750.6	2371.2
50°	2946.2	2938.3	3068.7	3325.6	3574.6	3766.3	3493.6	3169.5	3135.9	3021.3	2584.6
52.5°	2466.1	2491.7	2709.1	3086.5	3616.1	4007.3	3855.2	3521.2	3477.8	3290.0	2772.3
55°	2047.1	2074.8	2286.2	2655.7	3390.8	4092.3	4098.2	3894.7	3807.8	3523.2	2966.0
57.5°	1537.3	1590.7	1902.9	2250.7	2896.8	3880.9	4185.2	4252.4	4157.5	3748.5	3124.1
60°	982.1	1013.7	1363.4	1792.2	2347.5	3327.6	4167.4	4459.8	4408.5	3954.0	3256.5
62.5°	642.2	660.0	901.1	1349.6	1788.3	2507.5	3956.0	4542.8	4542.8	4092.3	3355.3
64°	484.1	488.1	660.0	1096.7	1491.9	1954.3	3707.0	4517.1	4564.6	4175.3	3375.0
65°	383.3	385.3	515.7	910.9	1339.7	1602.5	3489.6	4461.8	4538.9	4206.9	3386.9
67.5°	268.7	274.7	333.9	525.6	960.3	924.8	2586.6	4201.0	4295.8	4216.8	3371.1
70°	233.2	241.1	280.6	343.8	685.7	537.5	1375.3	3580.5	3693.2	3928.3	3137.9
72.5°	177.8	187.7	235.1	290.5	482.1	363.6	531.5	2543.1	2721.0	3037.1	2590.5
75°	128.4	132.4	173.9	237.1	337.9	280.6	229.2	1312.1	1491.9	1792.2	1610.4
77.5°	81.0	86.9	118.6	177.8	302.3	213.4	136.3	478.2	602.7	780.5	703.5
80°	47.4	49.4	71.1	122.5	203.5	158.1	86.9	169.9	205.5	290.5	187.7
82.5°	27.7	29.6	45.4	83.0	132.4	122.5	55.3	86.9	96.8	110.7	39.5
85°	9.9	9.9	31.6	49.4	71.1	61.3	31.6	45.4	49.4	61.3	11.9
87.5°	2.0	2.0	15.8	25.7	25.7	9.9	15.8	19.8	23.7	33.6	4.0
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°	667.9	667.9	667.9	667.9	667.9	667.9	667.9	667.9	667.9	667.9	667.9
2.5°	673.8	667.9	662.0	654.1	648.1	636.3	630.3	622.4	620.5	616.5	614.5
5°	689.6	679.7	665.9	646.2	634.3	616.5	604.7	592.8	590.8	586.9	584.9
7.5°	711.4	701.5	683.7	662.0	642.2	624.4	610.6	592.8	575.0	561.2	561.2
10°	746.9	735.1	711.4	691.6	667.9	630.3	565.1	505.9	468.3	444.6	436.7
12.5°	790.4	774.6	748.9	725.2	679.7	561.2	460.4	383.3	320.1	290.5	284.5
15°	835.8	822.0	796.3	760.8	624.4	468.3	335.9	217.4	156.1	128.4	132.4
17.5°	885.2	865.5	835.8	764.7	549.3	349.8	179.8	110.7	94.8	90.9	90.9
20°	936.6	910.9	881.3	721.2	452.5	201.6	102.8	83.0	77.1	71.1	73.1
22.5°	992.0	960.3	914.9	656.0	324.1	108.7	79.0	67.2	59.3	57.3	57.3
25°	1051.2	1005.8	948.5	580.9	187.7	83.0	65.2	53.4	47.4	45.4	43.5
27.5°	1114.5	1057.2	956.4	482.1	106.7	69.2	51.4	41.5	35.6	33.6	33.6
30°	1171.8	1108.5	938.6	357.7	81.0	57.3	41.5	31.6	27.7	27.7	27.7
32.5°	1248.8	1165.8	883.3	223.3	65.2	45.4	31.6	25.7	21.7	21.7	21.7
35°	1349.6	1250.8	827.9	118.6	53.4	37.5	25.7	19.8	17.8	17.8	17.8
37.5°	1487.9	1363.4	778.5	75.1	43.5	29.6	19.8	15.8	13.8	13.8	13.8
40°	1630.2	1497.8	709.4	57.3	35.6	23.7	15.8	11.9	9.9	9.9	11.9
42.5°	1808.0	1653.9	630.3	49.4	29.6	19.8	11.9	7.9	5.9	7.9	7.9
45°	1987.9	1817.9	519.7	41.5	25.7	15.8	7.9	4.0	4.0	5.9	5.9
47.5°	2173.6	1991.8	403.1	35.6	21.7	11.9	5.9	2.0	2.0	4.0	4.0
50°	2365.3	2163.7	300.4	31.6	17.8	9.9	4.0	2.0	0.0	2.0	2.0
52.5°	2556.9	2329.7	233.2	27.7	15.8	7.9	2.0	0.0	0.0	0.0	2.0
55°	2734.8	2479.9	185.7	23.7	13.8	5.9	2.0	0.0	0.0	0.0	0.0
57.5°	2885.0	2590.5	148.2	21.7	11.9	4.0	2.0	0.0	0.0	0.0	0.0
60°	3027.2	2677.5	114.6	17.8	9.9	4.0	2.0	0.0	0.0	0.0	0.0
62.5°	3128.0	2711.1	92.9	15.8	7.9	4.0	0.0	0.0	0.0	0.0	0.0
64°	3171.5	2715.0	81.0	13.8	7.9	4.0	2.0	0.0	0.0	0.0	0.0
65°	3197.2	2703.2	75.1	13.8	7.9	4.0	2.0	0.0	0.0	0.0	0.0
67.5°	3203.1	2638.0	57.3	11.9	5.9	2.0	2.0	0.0	0.0	0.0	0.0
70°	3029.2	2410.7	41.5	7.9	4.0	2.0	0.0	0.0	0.0	0.0	0.0
72.5°	2531.3	1841.6	27.7	5.9	4.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	1580.8	796.3	15.8	5.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	654.1	241.1	9.9	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	150.2	57.3	4.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.6	9.9	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	7.9	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	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)