

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: P595338

Luminaire Tested: **IST-PA1E-830-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595338
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)
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-T3-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5934 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

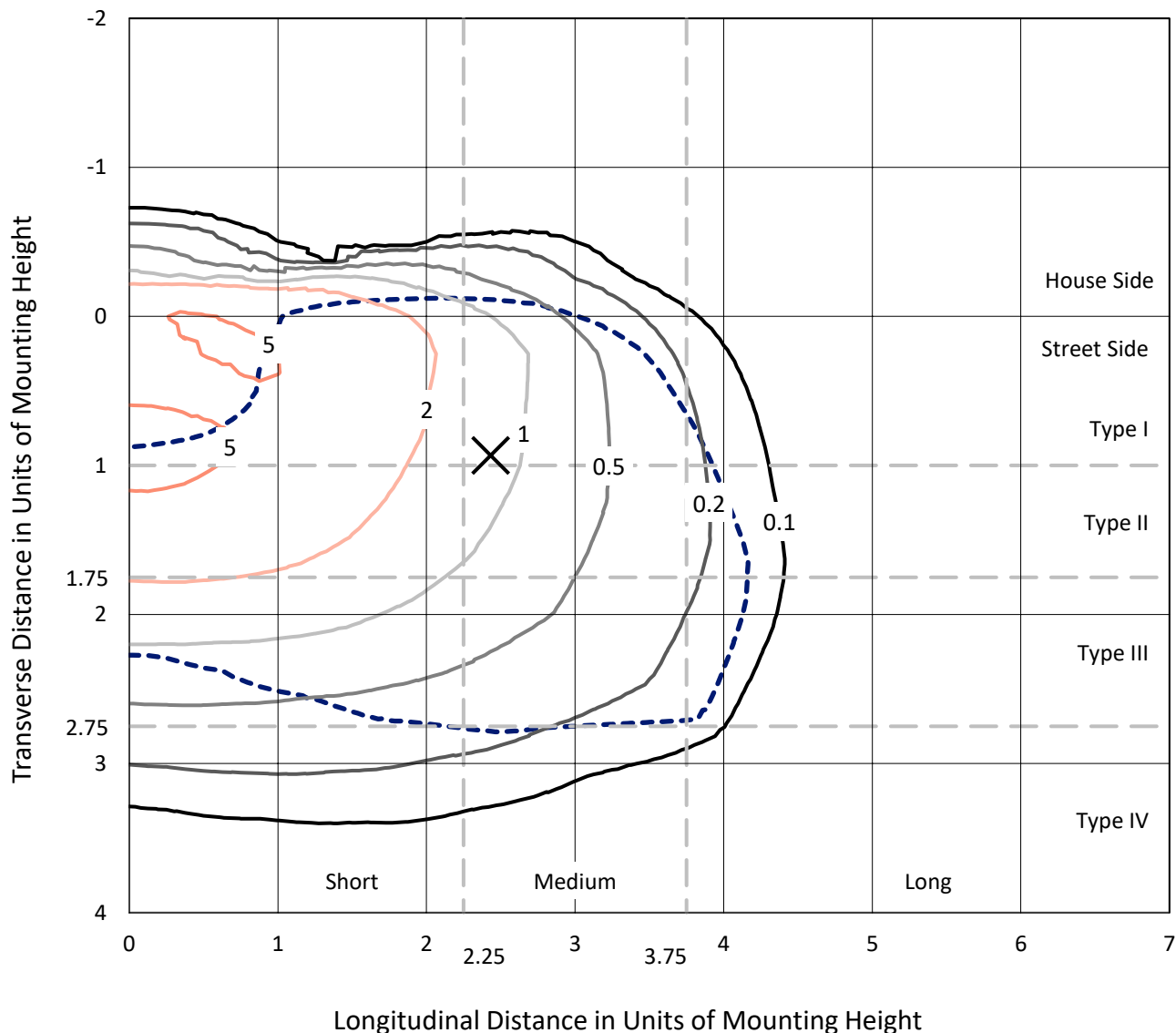
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

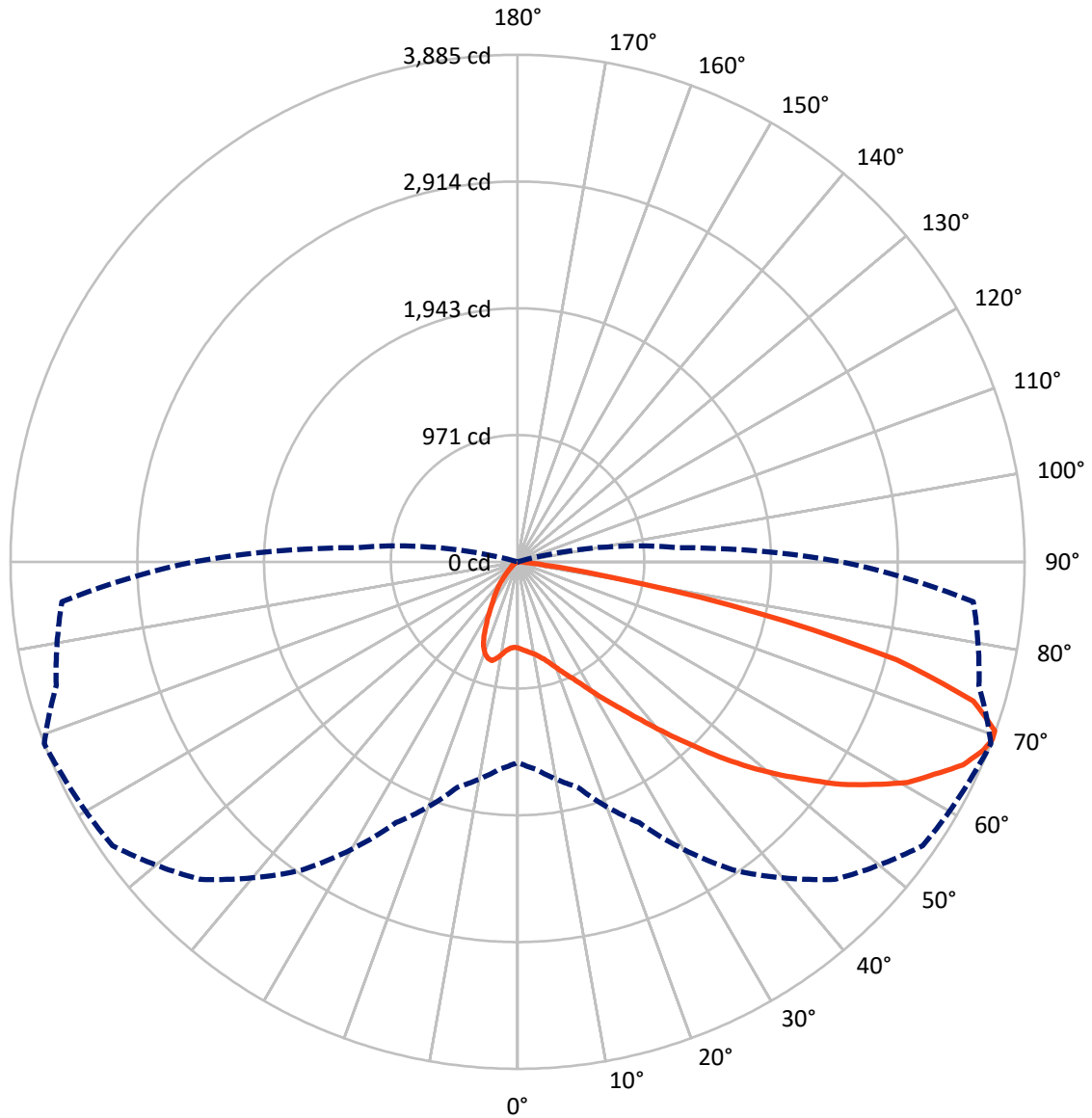
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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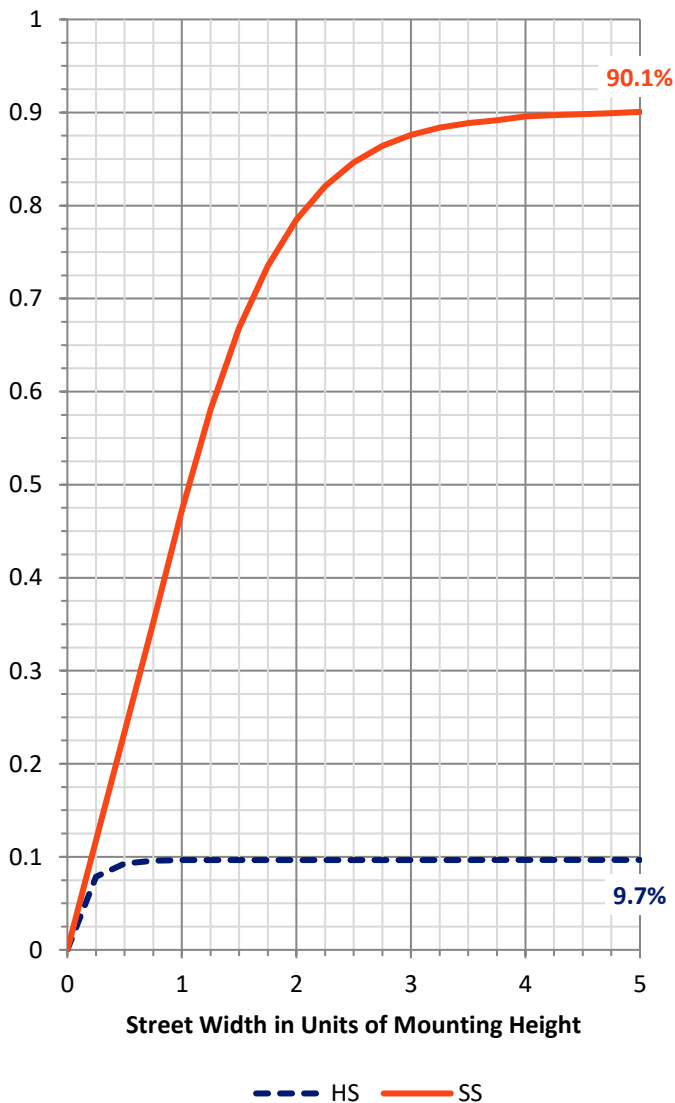
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	578.2	0.0	578.2
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	5355.8	0.0	5355.8
	% Fixture	90.3	0.0	90.3
Total	Lumens	5934.0	0.0	5934.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.9	1.1
10°-20°	166.5	2.8
20°-30°	277.2	4.7
30°-40°	499.1	8.4
40°-50°	905.1	15.3
50°-60°	1414.4	23.8
60°-70°	1636.4	27.6
70°-80°	915.1	15.4
80°-90°	57.1	1.0
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°	5934.0	100.0
0°-180°	5934.0	100.0

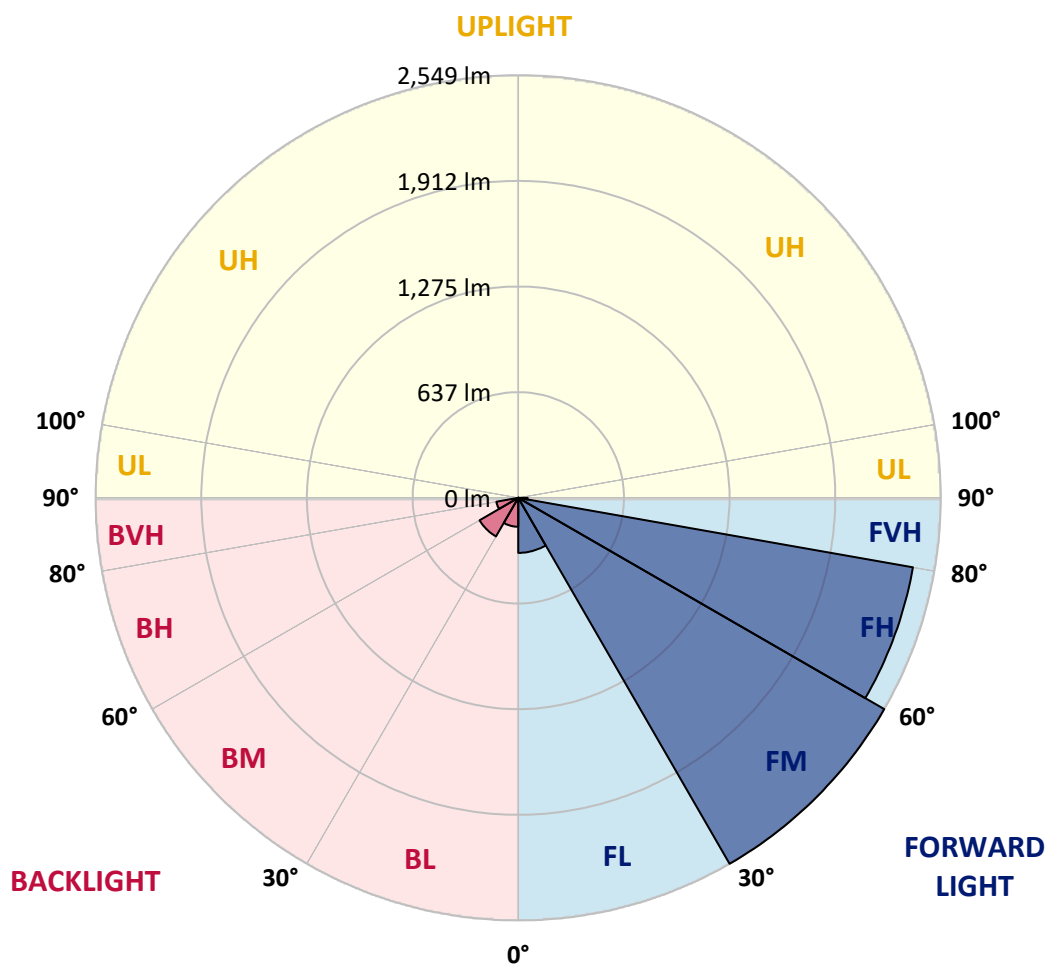


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.0	5.6			
FM (30°-60°)	2549.4	43.0			
FH (60°-80°)	2417.7	40.7			G2/5000
FVH (80°-90°)	56.7	1.0			G1/100
BL (0°-30°)	174.7	2.9	B1/500		
BM (30°-60°)	269.2	4.5	B1/1000		
BH (60°-80°)	133.9	2.3	B1/500		G1/500
BVH (80°-90°)	0.4	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-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	683.8	683.8	683.8	679.8	681.8	679.8	677.8	671.9	673.9	671.9	666.0
5°	660.1	662.0	668.0	671.9	681.8	685.8	687.7	687.7	685.8	681.8	677.8
7.5°	614.6	614.6	620.5	632.4	652.2	673.9	691.7	701.6	703.5	703.5	697.6
10°	602.8	602.8	610.7	618.6	638.3	664.0	691.7	715.4	719.3	723.3	721.3
12.5°	596.8	598.8	606.7	620.5	646.2	669.9	699.6	733.2	745.0	754.9	756.9
15°	604.7	604.7	612.6	626.5	656.1	689.7	727.3	764.8	776.7	790.5	800.4
17.5°	616.6	620.5	624.5	638.3	666.0	707.5	756.9	806.3	820.1	837.9	845.8
20°	636.3	636.3	640.3	652.2	681.8	731.2	800.4	859.7	871.5	883.4	893.3
22.5°	660.1	662.0	662.0	671.9	705.5	758.9	837.9	911.0	930.8	936.7	940.7
25°	731.2	727.3	713.4	707.5	733.2	790.5	883.4	972.3	994.0	1000.0	992.1
27.5°	879.4	863.6	826.1	786.5	782.6	839.9	944.6	1049.4	1073.1	1075.1	1047.4
30°	1065.2	1067.2	1005.9	920.9	863.6	893.3	1011.8	1146.2	1169.9	1160.0	1116.6
32.5°	1294.4	1284.6	1239.1	1116.6	1002.0	976.3	1085.0	1247.0	1274.7	1258.9	1201.5
35°	1490.1	1496.0	1440.7	1332.0	1187.7	1104.7	1173.9	1359.6	1393.2	1365.6	1294.4
37.5°	1654.1	1662.0	1628.4	1539.5	1411.0	1280.6	1290.5	1492.1	1537.5	1509.8	1420.9
40°	1835.9	1841.8	1828.0	1731.2	1616.6	1490.1	1446.6	1644.2	1705.5	1667.9	1575.1
42.5°	2035.5	2057.3	2033.5	1956.5	1837.9	1729.2	1664.0	1830.0	1891.3	1867.5	1743.0
45°	2308.2	2310.2	2282.5	2205.5	2083.0	1994.0	1915.0	2027.6	2106.7	2077.0	1930.8
47.5°	2509.8	2523.7	2507.8	2454.5	2355.7	2296.4	2187.7	2245.0	2328.0	2290.5	2124.5
50°	2664.0	2701.5	2687.7	2703.5	2654.1	2628.4	2462.4	2470.3	2551.3	2519.7	2322.1
52.5°	2748.9	2796.4	2800.3	2881.3	2922.8	2986.1	2729.2	2717.3	2768.7	2741.0	2523.7
55°	2737.1	2748.9	2847.8	2996.0	3158.0	3302.3	2990.0	2940.6	3011.8	2934.7	2737.1
57.5°	2622.5	2652.1	2826.0	3009.8	3296.4	3505.8	3215.3	3160.0	3219.3	3116.5	2956.4
60°	2458.4	2501.9	2725.2	2988.1	3377.4	3628.4	3434.7	3379.4	3432.7	3308.2	3205.5
62.5°	2310.2	2330.0	2535.5	2897.2	3330.0	3622.4	3604.6	3553.3	3584.9	3454.5	3418.9
65°	2098.8	2106.7	2310.2	2733.1	3225.2	3582.9	3697.5	3717.3	3750.9	3577.0	3571.1
67.5°	1772.7	1790.5	1992.0	2446.6	3051.3	3505.8	3770.7	3810.2	3849.7	3642.2	3598.7
69°	1537.5	1594.8	1788.5	2205.5	2883.3	3440.6	3790.4	3853.7	3885.3	3660.0	3505.8
70°	1345.8	1395.2	1618.5	2019.7	2735.1	3367.5	3804.2	3847.7	3879.3	3622.4	3353.7
72.5°	675.9	739.1	1045.4	1474.3	2173.9	3033.5	3733.1	3685.7	3652.1	3331.9	2713.4
75°	260.9	270.7	448.6	839.9	1359.6	2227.2	3187.7	3098.7	2999.9	2527.6	1608.7
77.5°	144.3	142.3	195.6	371.5	579.0	1088.9	2156.1	2013.8	1877.4	1357.7	652.2
80°	61.3	65.2	85.0	177.9	304.3	377.5	1047.4	930.8	741.1	430.8	156.1
82.5°	37.5	39.5	59.3	108.7	211.5	144.3	339.9	290.5	213.4	116.6	37.5
85°	11.9	13.8	41.5	73.1	102.8	59.3	77.1	67.2	59.3	49.4	11.9
87.5°	2.0	2.0	15.8	39.5	27.7	9.9	7.9	13.8	21.7	23.7	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°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	664.0	660.1	656.1	654.1	654.1	650.2	648.2	646.2	646.2	644.3	644.3
5°	671.9	668.0	664.0	662.0	658.1	656.1	656.1	656.1	654.1	656.1	658.1
7.5°	691.7	685.8	683.8	681.8	681.8	675.9	666.0	640.3	614.6	606.7	598.8
10°	719.3	717.4	717.4	717.4	703.5	652.2	581.0	517.8	484.2	456.5	456.5
12.5°	758.9	758.9	756.9	751.0	679.8	555.3	444.7	349.8	294.5	262.8	266.8
15°	802.4	800.4	804.3	766.8	598.8	428.8	268.8	189.7	160.1	156.1	156.1
17.5°	847.8	851.8	847.8	725.3	492.1	264.8	160.1	144.3	140.3	140.3	140.3
20°	895.2	891.3	885.4	654.1	357.7	166.0	138.3	134.4	130.4	128.5	128.5
22.5°	942.7	938.7	899.2	563.2	223.3	136.4	130.4	122.5	116.6	114.6	114.6
25°	988.1	988.1	873.5	446.6	152.2	128.5	118.6	110.7	104.7	98.8	98.8
27.5°	1045.4	1049.4	832.0	312.2	128.5	118.6	106.7	94.9	87.0	83.0	83.0
30°	1110.6	1116.6	764.8	203.6	116.6	104.7	92.9	79.0	67.2	63.2	61.3
32.5°	1187.7	1193.6	687.7	134.4	104.7	90.9	77.1	59.3	47.4	45.5	43.5
35°	1286.5	1272.7	594.8	106.7	90.9	77.1	59.3	41.5	33.6	31.6	31.6
37.5°	1409.1	1379.4	488.1	92.9	77.1	61.3	43.5	27.7	21.7	21.7	19.8
40°	1549.4	1466.4	377.5	83.0	65.2	47.4	27.7	17.8	13.8	13.8	13.8
42.5°	1703.5	1539.5	268.8	73.1	53.4	33.6	17.8	9.9	7.9	7.9	7.9
45°	1881.4	1606.7	183.8	63.2	45.5	23.7	9.9	4.0	4.0	4.0	4.0
47.5°	2059.2	1650.2	122.5	55.3	33.6	13.8	5.9	2.0	2.0	2.0	2.0
50°	2239.1	1683.8	94.9	47.4	23.7	7.9	2.0	0.0	0.0	0.0	0.0
52.5°	2399.1	1707.5	77.1	39.5	15.8	5.9	2.0	0.0	0.0	0.0	0.0
55°	2537.5	1709.4	67.2	31.6	11.9	4.0	0.0	0.0	0.0	0.0	0.0
57.5°	2677.8	1693.6	57.3	23.7	7.9	2.0	0.0	0.0	0.0	0.0	0.0
60°	2762.8	1652.1	45.5	17.8	5.9	2.0	0.0	0.0	0.0	0.0	0.0
62.5°	2814.2	1583.0	35.6	11.9	4.0	2.0	0.0	0.0	0.0	0.0	0.0
65°	2784.5	1496.0	25.7	7.9	4.0	2.0	0.0	0.0	0.0	0.0	0.0
67.5°	2646.2	1361.6	17.8	5.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0
69°	2482.1	1239.1	15.8	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
70°	2337.9	1144.2	13.8	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
72.5°	1741.1	737.1	11.9	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	978.2	247.0	7.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	367.6	63.2	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	81.0	15.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.0	0.0	0.0	0.0	0.0	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)