

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: P595282

Luminaire Tested: **IST-PA1E-730-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595282
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-730-U-T2U-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 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: 6587 lumens
Efficiency: N/A
Efficacy: 80.8 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

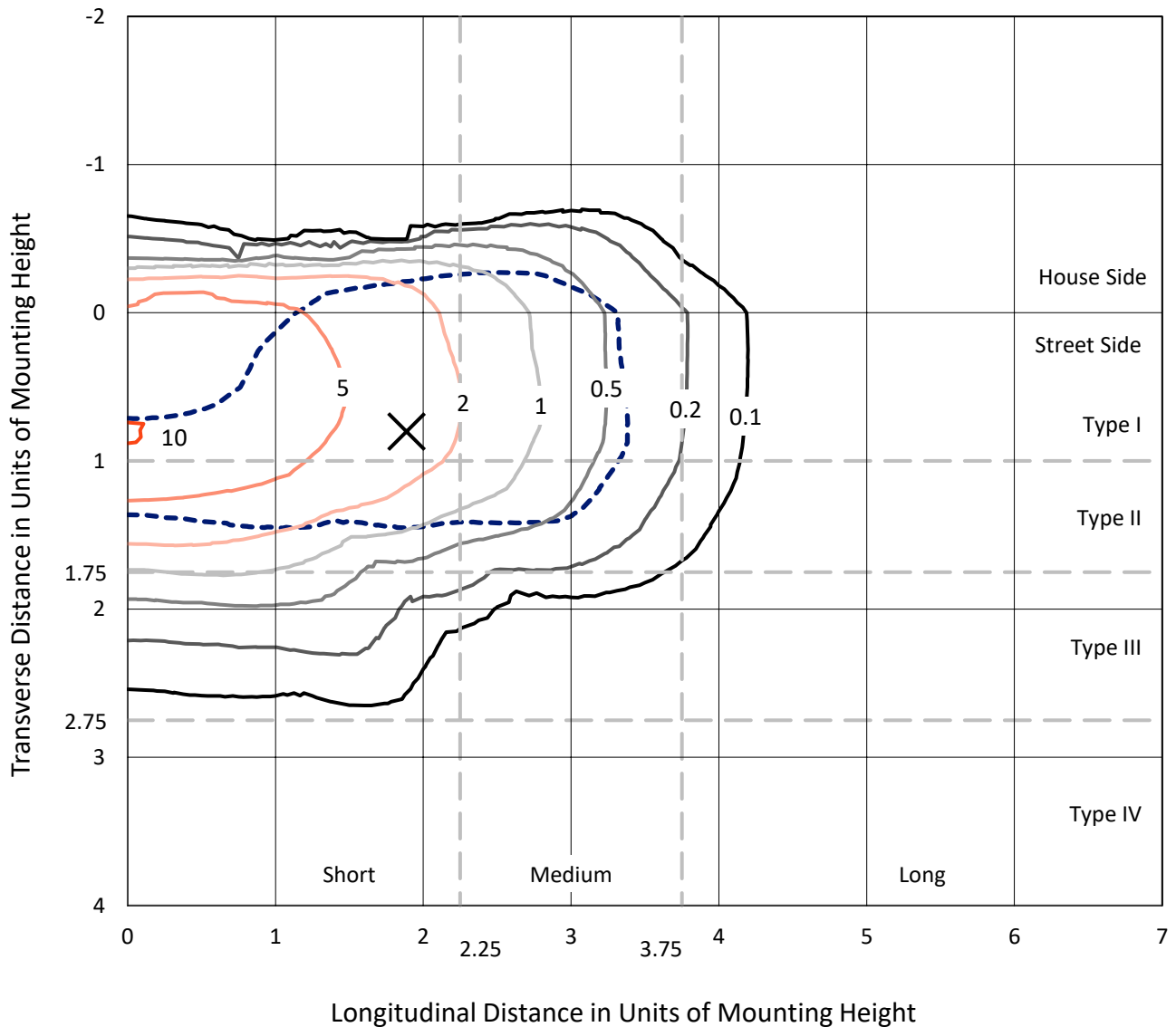
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

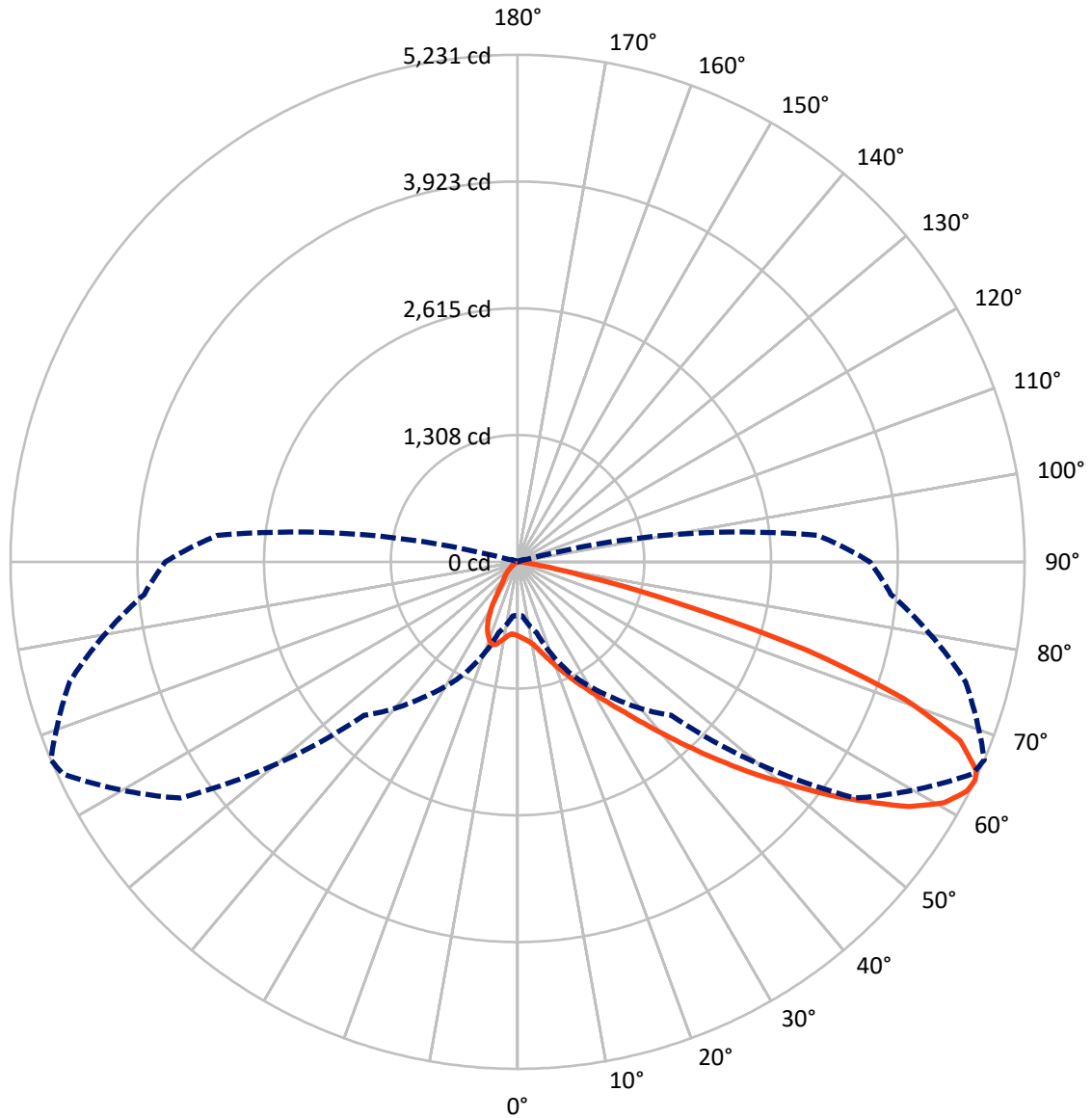
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.1 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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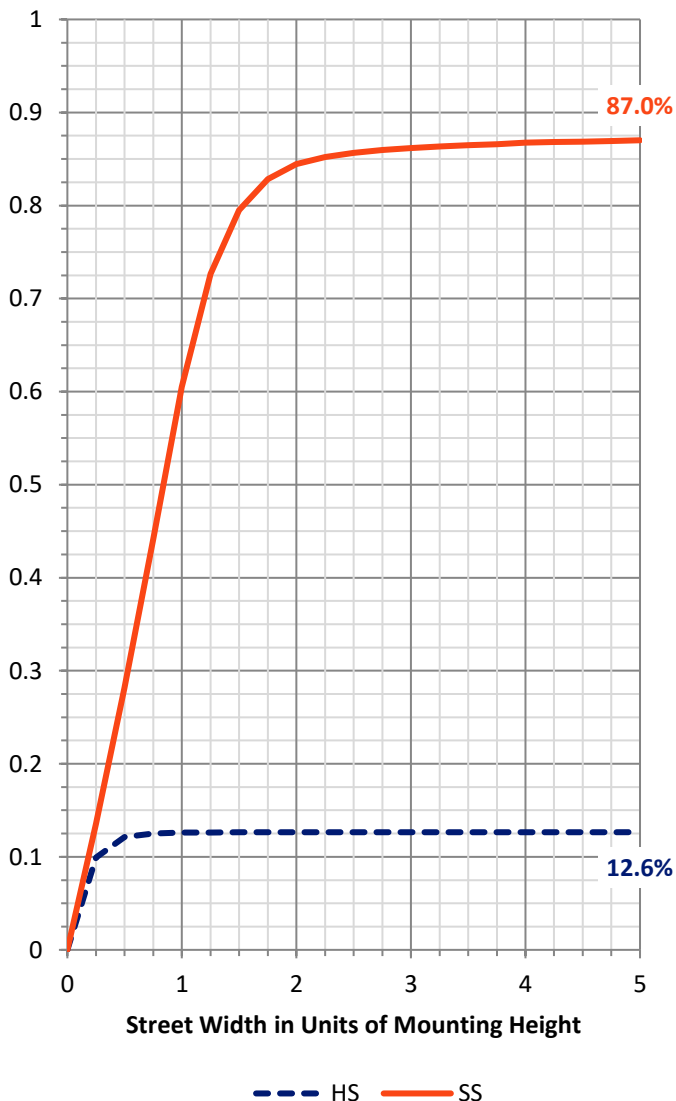
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	842.6	0.0	842.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	5744.4	0.0	5744.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	6587.0	0.0	6587.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	1.1
10°-20°	214.3	3.3
20°-30°	388.8	5.9
30°-40°	744.8	11.3
40°-50°	1372.8	20.8
50°-60°	1773.1	26.9
60°-70°	1452.3	22.0
70°-80°	533.9	8.1
80°-90°	34.4	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°	6587.0	100.0
0°-180°	6587.0	100.0

Coefficient of Utilization



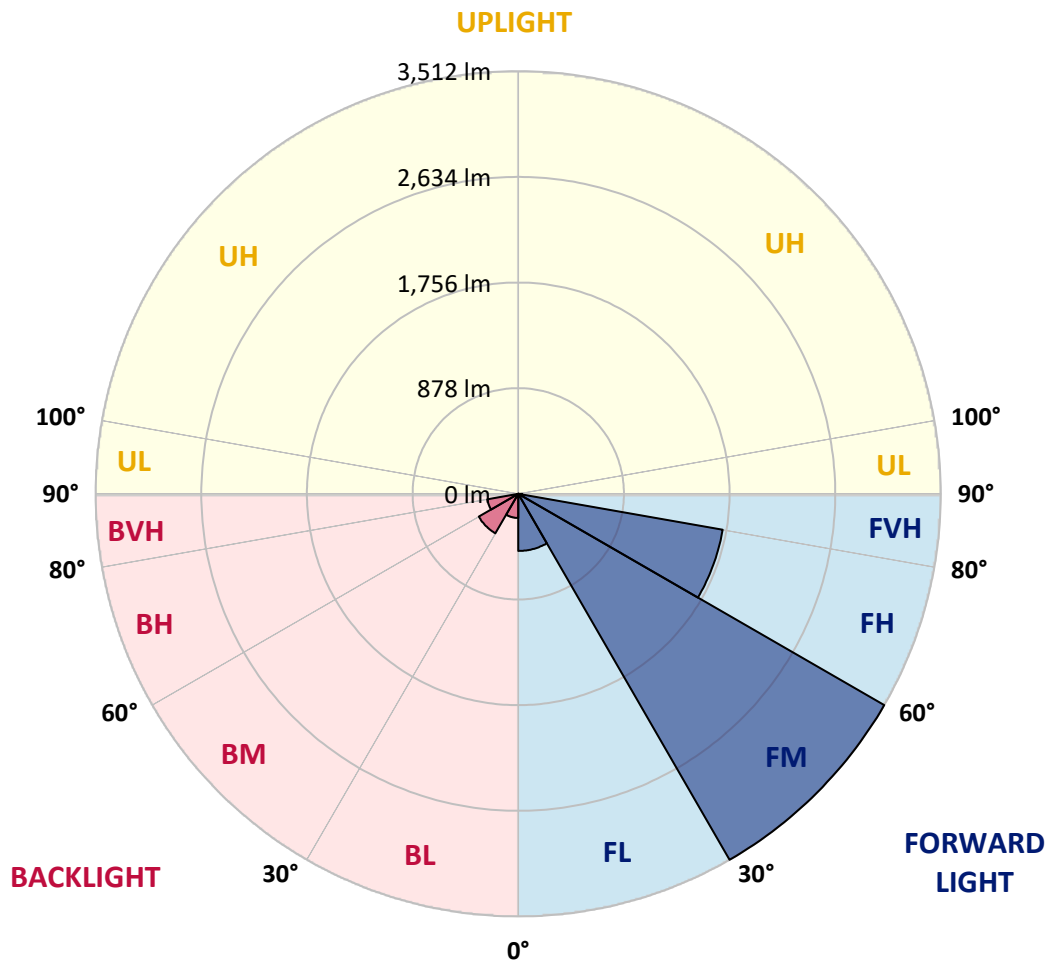
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	474.9	7.2			
FM (30°-60°)	3511.8	53.3			
FH (60°-80°)	1724.8	26.2			G1/1800
FVH (80°-90°)	32.9	0.5			G1/100
BL (0°-30°)	200.8	3.0	B1/500		
BM (30°-60°)	378.8	5.8	B1/1000		
BH (60°-80°)	261.4	4.0	B1/500		G1/500
BVH (80°-90°)	1.5	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°	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4
2.5°	792.5	792.5	797.1	794.8	794.8	790.3	783.5	785.8	783.5	781.2	774.4
5°	779.0	781.2	783.5	788.0	797.1	801.6	801.6	803.9	803.9	801.6	792.5
7.5°	772.2	776.7	781.2	785.8	797.1	803.9	815.2	828.8	828.8	831.0	822.0
10°	797.1	801.6	808.4	815.2	826.5	837.8	846.9	862.7	862.7	867.3	865.0
12.5°	849.2	849.2	851.4	856.0	871.8	885.4	901.2	914.8	917.1	919.4	912.6
15°	912.6	912.6	914.8	914.8	923.9	944.3	973.7	987.3	985.0	982.8	969.2
17.5°	985.0	985.0	985.0	987.3	991.8	1003.1	1037.1	1064.3	1062.0	1059.8	1032.6
20°	1053.0	1057.5	1062.0	1064.3	1068.8	1077.9	1114.1	1145.8	1152.6	1143.5	1096.0
22.5°	1129.9	1132.2	1134.5	1141.3	1152.6	1157.1	1193.4	1240.9	1247.7	1236.4	1173.0
25°	1206.9	1211.5	1218.3	1227.3	1238.6	1261.3	1286.2	1349.6	1356.4	1342.8	1256.8
27.5°	1376.8	1374.5	1354.1	1338.3	1340.5	1356.4	1390.4	1458.3	1465.1	1451.5	1340.5
30°	1666.6	1639.4	1601.0	1530.8	1462.8	1469.6	1517.2	1582.8	1594.2	1576.0	1433.4
32.5°	2078.7	2051.6	1956.5	1802.5	1653.0	1603.2	1664.4	1727.8	1741.3	1721.0	1542.1
35°	2479.5	2472.8	2382.2	2196.5	1942.9	1804.7	1820.6	1902.1	1906.6	1881.7	1677.9
37.5°	2975.5	2950.6	2826.0	2617.7	2318.8	2072.0	2026.7	2103.7	2115.0	2085.5	1843.2
40°	3303.8	3294.7	3220.0	3072.8	2751.3	2441.1	2278.0	2352.7	2350.5	2307.5	2033.5
42.5°	3494.0	3498.5	3494.0	3423.8	3240.4	2884.9	2610.9	2615.4	2622.2	2576.9	2253.1
45°	3623.1	3623.1	3629.9	3686.5	3616.3	3414.8	3016.2	2914.3	2923.4	2853.2	2481.8
47.5°	3620.8	3634.4	3670.6	3802.0	3897.1	3908.4	3523.5	3263.0	3258.5	3152.1	2717.3
50°	3376.3	3367.2	3516.7	3811.0	4096.4	4316.0	4003.5	3632.1	3593.6	3462.3	2961.9
52.5°	2826.0	2855.4	3104.5	3537.0	4143.9	4592.3	4417.9	4035.2	3985.4	3770.3	3177.0
55°	2345.9	2377.6	2619.9	3043.4	3885.8	4689.6	4696.4	4463.2	4363.6	4037.5	3398.9
57.5°	1761.7	1822.9	2180.6	2579.2	3319.7	4447.3	4796.1	4873.1	4764.4	4295.6	3580.1
60°	1125.4	1161.7	1562.5	2053.8	2690.1	3813.3	4775.7	5110.8	5051.9	4531.1	3731.8
62.5°	735.9	756.3	1032.6	1546.6	2049.3	2873.6	4533.4	5205.9	5205.9	4689.6	3845.0
64°	554.8	559.3	756.3	1256.8	1709.6	2239.5	4248.1	5176.5	5230.8	4784.7	3867.6
65°	439.3	441.6	591.0	1043.9	1535.3	1836.5	3999.0	5113.1	5201.4	4821.0	3881.2
67.5°	308.0	314.8	382.7	602.3	1100.5	1059.8	2964.1	4814.2	4922.9	4832.3	3863.1
70°	267.2	276.3	321.5	394.0	785.8	615.9	1576.0	4103.1	4232.2	4501.7	3595.9
72.5°	203.8	215.1	269.5	332.9	552.5	416.7	609.1	2914.3	3118.1	3480.4	2968.7
75°	147.2	151.7	199.3	271.7	387.2	321.5	262.7	1503.6	1709.6	2053.8	1845.5
77.5°	92.8	99.6	135.9	203.8	346.5	244.6	156.2	548.0	690.7	894.4	806.1
80°	54.3	56.6	81.5	140.4	233.2	181.2	99.6	194.7	235.5	332.9	215.1
82.5°	31.7	34.0	52.1	95.1	151.7	140.4	63.4	99.6	111.0	126.8	45.3
85°	11.3	11.3	36.2	56.6	81.5	70.2	36.2	52.1	56.6	70.2	13.6
87.5°	2.3	2.3	18.1	29.4	29.4	11.3	18.1	22.6	27.2	38.5	4.5
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°	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4	765.4
2.5°	772.2	765.4	758.6	749.5	742.7	729.1	722.4	713.3	711.0	706.5	704.2
5°	790.3	779.0	763.1	740.5	726.9	706.5	692.9	679.3	677.1	672.5	670.3
7.5°	815.2	803.9	783.5	758.6	735.9	715.6	699.7	679.3	658.9	643.1	643.1
10°	856.0	842.4	815.2	792.5	765.4	722.4	647.6	579.7	536.7	509.5	500.4
12.5°	905.8	887.7	858.2	831.0	779.0	643.1	527.6	439.3	366.8	332.9	326.1
15°	957.9	942.0	912.6	871.8	715.6	536.7	385.0	249.1	178.9	147.2	151.7
17.5°	1014.5	991.8	957.9	876.3	629.5	400.8	206.1	126.8	108.7	104.2	104.2
20°	1073.3	1043.9	1009.9	826.5	518.6	231.0	117.8	95.1	88.3	81.5	83.8
22.5°	1136.7	1100.5	1048.4	751.8	371.4	124.5	90.6	77.0	67.9	65.7	65.7
25°	1204.7	1152.6	1086.9	665.7	215.1	95.1	74.7	61.1	54.3	52.1	49.8
27.5°	1277.1	1211.5	1096.0	552.5	122.3	79.3	58.9	47.6	40.8	38.5	38.5
30°	1342.8	1270.3	1075.6	409.9	92.8	65.7	47.6	36.2	31.7	31.7	31.7
32.5°	1431.1	1336.0	1012.2	255.9	74.7	52.1	36.2	29.4	24.9	24.9	24.9
35°	1546.6	1433.4	948.8	135.9	61.1	43.0	29.4	22.6	20.4	20.4	20.4
37.5°	1705.1	1562.5	892.2	86.0	49.8	34.0	22.6	18.1	15.9	15.9	15.9
40°	1868.2	1716.4	812.9	65.7	40.8	27.2	18.1	13.6	11.3	11.3	13.6
42.5°	2072.0	1895.3	722.4	56.6	34.0	22.6	13.6	9.1	6.8	9.1	9.1
45°	2278.0	2083.3	595.5	47.6	29.4	18.1	9.1	4.5	4.5	6.8	6.8
47.5°	2490.9	2282.5	461.9	40.8	24.9	13.6	6.8	2.3	2.3	4.5	4.5
50°	2710.5	2479.5	344.2	36.2	20.4	11.3	4.5	2.3	0.0	2.3	2.3
52.5°	2930.2	2669.8	267.2	31.7	18.1	9.1	2.3	0.0	0.0	0.0	2.3
55°	3134.0	2841.9	212.9	27.2	15.9	6.8	2.3	0.0	0.0	0.0	0.0
57.5°	3306.1	2968.7	169.8	24.9	13.6	4.5	2.3	0.0	0.0	0.0	0.0
60°	3469.1	3068.3	131.3	20.4	11.3	4.5	2.3	0.0	0.0	0.0	0.0
62.5°	3584.6	3106.8	106.4	18.1	9.1	4.5	0.0	0.0	0.0	0.0	0.0
64°	3634.4	3111.3	92.8	15.9	9.1	4.5	2.3	0.0	0.0	0.0	0.0
65°	3663.8	3097.7	86.0	15.9	9.1	4.5	2.3	0.0	0.0	0.0	0.0
67.5°	3670.6	3023.0	65.7	13.6	6.8	2.3	2.3	0.0	0.0	0.0	0.0
70°	3471.4	2762.6	47.6	9.1	4.5	2.3	0.0	0.0	0.0	0.0	0.0
72.5°	2900.7	2110.4	31.7	6.8	4.5	2.3	0.0	0.0	0.0	0.0	0.0
75°	1811.5	912.6	18.1	6.8	2.3	2.3	0.0	0.0	0.0	0.0	0.0
77.5°	749.5	276.3	11.3	4.5	2.3	2.3	0.0	0.0	0.0	0.0	0.0
80°	172.1	65.7	4.5	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	40.8	11.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0
85°	9.1	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	2.3	2.3	2.3	2.3	2.3	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)