

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: P595277

Luminaire Tested: **IST-PA1E-727-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1E-727-U-T4W-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6159 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

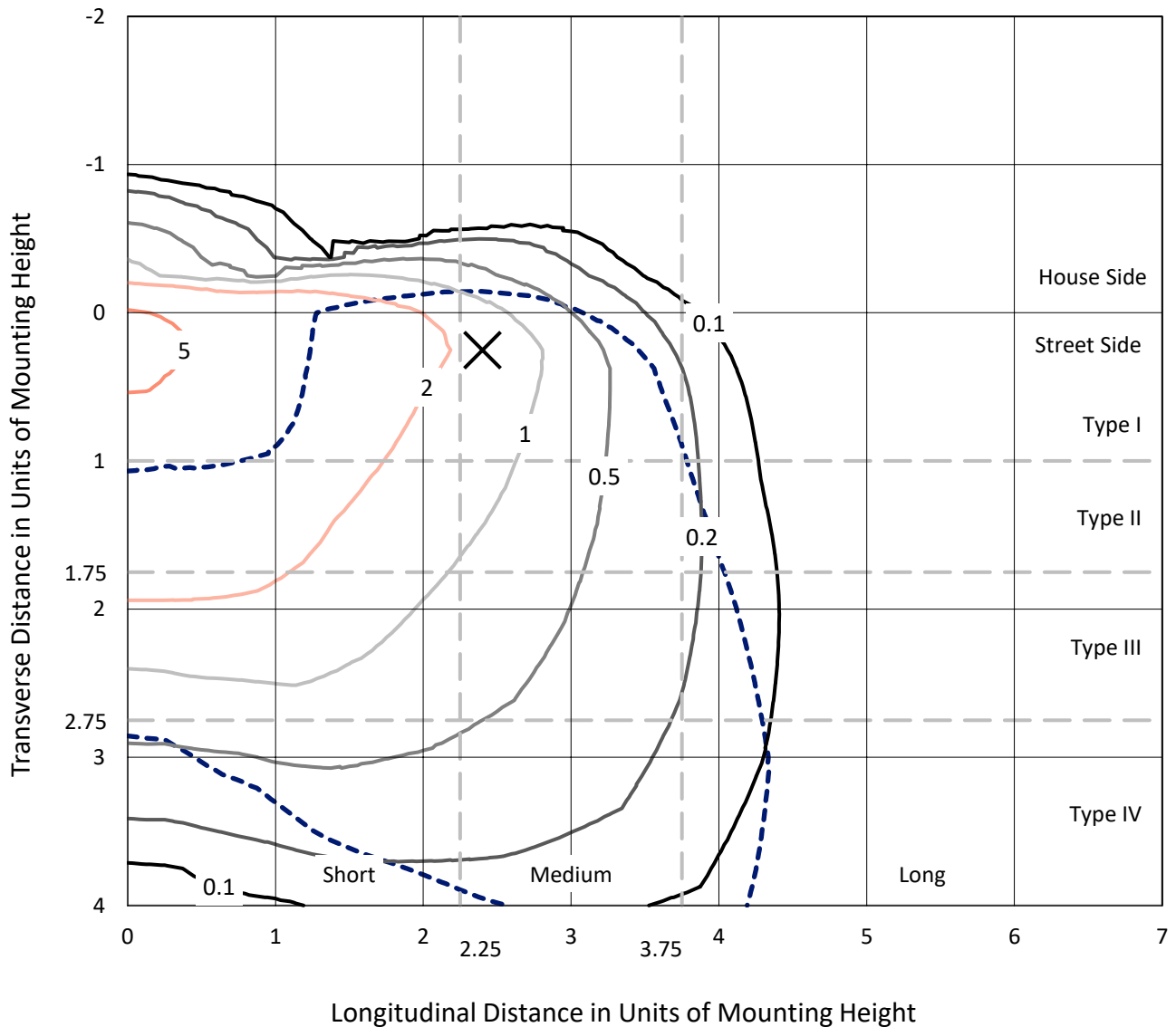
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

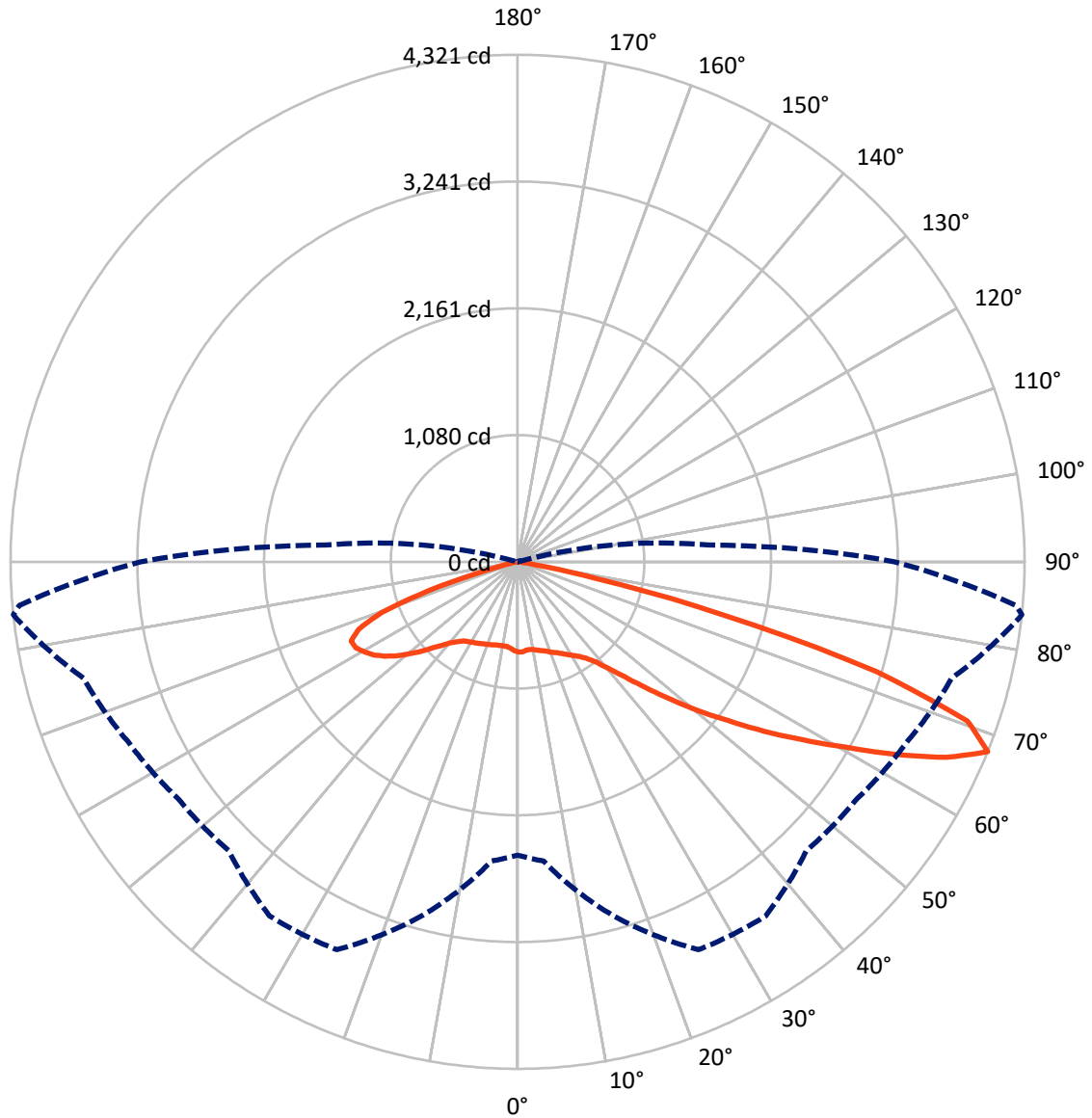
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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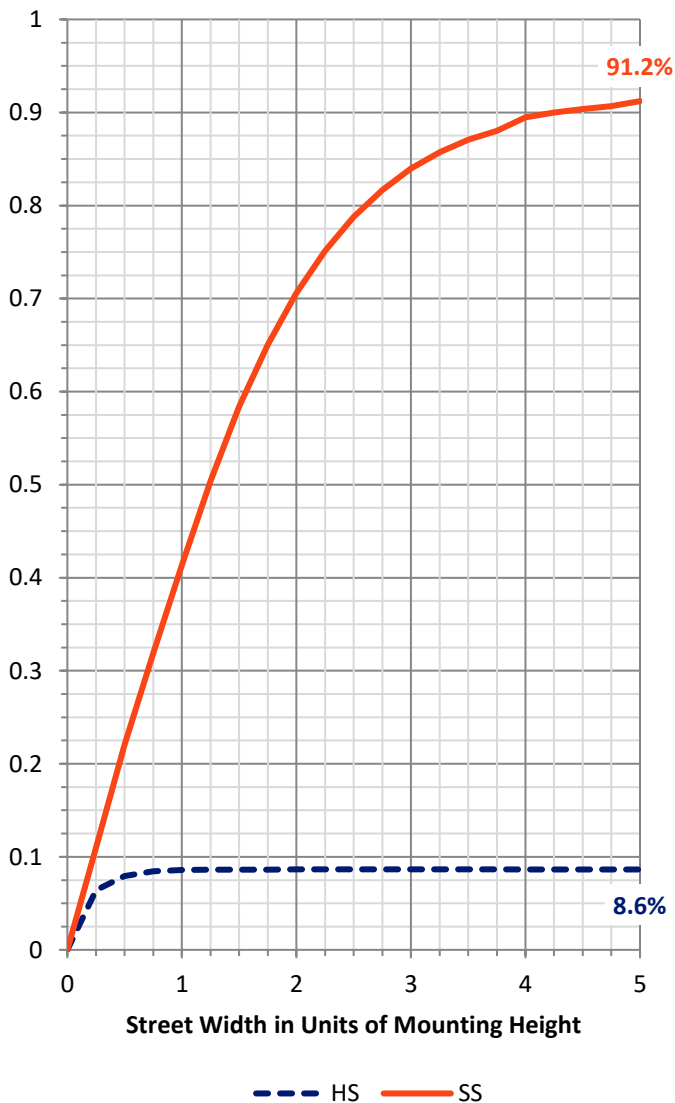
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	536.2	0.0	536.2
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	5622.8	0.0	5622.8
	% Fixture	91.3	0.0	91.3
Total	Lumens	6159.0	0.0	6159.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	1.1
10°-20°	180.0	2.9
20°-30°	288.2	4.7
30°-40°	414.8	6.7
40°-50°	711.9	11.6
50°-60°	1243.8	20.2
60°-70°	1781.3	28.9
70°-80°	1338.8	21.7
80°-90°	131.4	2.1
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°	6159.0	100.0
0°-180°	6159.0	100.0

Coefficient of Utilization

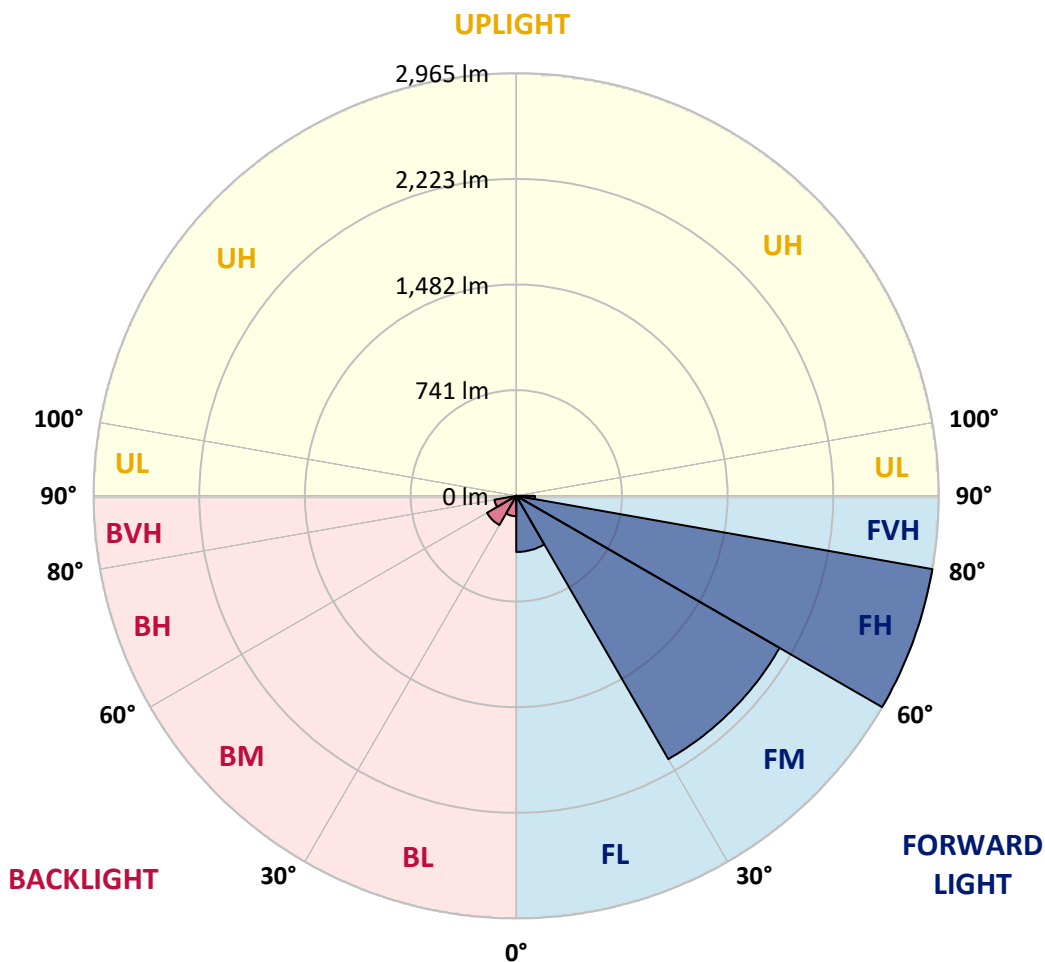


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	393.8	6.4			
FM (30°-60°)	2133.4	34.6			
FH (60°-80°)	2964.6	48.1			G2/5000
FVH (80°-90°)	131.0	2.1			G2/225
BL (0°-30°)	143.2	2.3	B1/500		
BM (30°-60°)	237.1	3.9	B1/1000		
BH (60°-80°)	155.5	2.5	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3
2.5°	811.0	815.2	817.2	806.8	806.8	798.5	786.1	781.9	775.7	769.4	767.3
5°	852.6	858.8	856.8	844.3	838.0	821.4	804.8	788.1	771.5	756.9	756.9
7.5°	900.4	902.5	896.3	875.5	863.0	840.1	815.2	796.5	775.7	754.9	750.7
10°	942.0	939.9	931.6	910.8	887.9	858.8	831.8	811.0	786.1	761.1	759.0
12.5°	971.1	973.2	962.8	933.7	910.8	877.6	850.5	829.7	800.6	773.6	767.3
15°	996.1	1002.3	989.8	960.7	927.5	898.3	877.6	850.5	817.2	786.1	781.9
17.5°	1019.0	1021.0	1010.6	977.4	946.2	921.2	898.3	873.4	840.1	800.6	796.5
20°	1031.4	1037.7	1031.4	989.8	960.7	942.0	923.3	898.3	860.9	823.5	819.3
22.5°	1039.8	1046.0	1043.9	998.2	973.2	958.7	942.0	919.1	883.8	840.1	836.0
25°	1043.9	1048.1	1052.2	1006.5	985.7	979.4	964.9	944.1	910.8	865.1	860.9
27.5°	1050.1	1054.3	1058.5	1016.9	1008.6	1002.3	998.2	981.5	942.0	894.2	887.9
30°	1060.5	1066.8	1070.9	1035.6	1035.6	1041.8	1041.8	1019.0	975.3	925.4	921.2
32.5°	1073.0	1075.1	1083.4	1054.3	1064.7	1079.3	1075.1	1052.2	1006.5	960.7	954.5
35°	1106.3	1106.3	1120.9	1083.4	1095.9	1108.4	1112.5	1095.9	1054.3	1008.6	1006.5
37.5°	1187.4	1187.4	1199.9	1139.6	1137.5	1150.0	1164.5	1164.5	1122.9	1081.3	1077.2
40°	1370.4	1370.4	1370.4	1231.1	1208.2	1222.7	1245.6	1258.1	1222.7	1193.6	1193.6
42.5°	1676.1	1678.2	1647.0	1399.5	1301.8	1326.7	1351.7	1378.7	1360.0	1339.2	1335.0
45°	1992.2	1981.8	1977.6	1647.0	1468.1	1455.7	1486.8	1532.6	1538.8	1526.4	1534.7
47.5°	2208.4	2218.8	2225.1	1954.7	1701.0	1615.8	1644.9	1709.4	1746.8	1744.7	1757.2
50°	2418.5	2424.7	2430.9	2293.7	2008.8	1817.5	1836.2	1923.5	1975.5	1992.2	2000.5
52.5°	2601.5	2584.8	2611.9	2593.1	2335.3	2048.3	2048.3	2148.1	2241.7	2247.9	2245.9
55°	2655.5	2665.9	2747.0	2803.2	2670.1	2331.1	2289.5	2395.6	2495.4	2547.4	2547.4
57.5°	2776.1	2786.5	2884.3	3011.1	2913.4	2609.8	2547.4	2651.4	2759.5	2859.3	2873.9
60°	2934.2	2936.3	3040.2	3233.6	3098.5	2861.4	2809.4	2927.9	3036.1	3206.6	3254.4
62.5°	3019.4	3027.8	3171.2	3424.9	3331.4	3081.8	3069.3	3177.5	3316.8	3616.3	3659.9
65°	2888.4	2942.5	3254.4	3539.3	3520.6	3287.7	3331.4	3418.7	3578.8	4017.6	4059.2
67.5°	2499.6	2559.9	3117.2	3647.5	3684.9	3481.1	3526.8	3653.7	3830.4	4321.2	4263.0
70°	2302.0	2351.9	2784.5	3707.8	3822.1	3697.4	3718.2	3836.7	3888.7	4067.5	4005.1
72.5°	1744.7	1796.7	2356.1	3501.9	3940.7	3924.0	3872.0	3774.3	3466.5	3200.4	3048.6
75°	771.5	831.8	1567.9	2736.6	3647.5	4053.0	3778.5	3231.6	2489.2	1817.5	1684.4
77.5°	341.0	376.4	607.2	1520.1	2740.8	3508.1	2988.2	2154.4	1249.8	675.8	628.0
80°	110.2	114.4	191.3	532.4	1401.6	2322.8	1830.0	1035.6	384.7	158.0	147.6
82.5°	43.7	47.8	91.5	224.6	580.2	923.3	898.3	374.3	112.3	41.6	41.6
85°	12.5	14.6	45.7	118.5	205.9	259.9	318.2	124.8	60.3	12.5	12.5
87.5°	4.2	4.2	16.6	37.4	39.5	27.0	60.3	47.8	37.4	4.2	4.2
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°	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3
2.5°	763.2	759.0	748.6	740.3	736.1	729.9	721.6	717.4	717.4	715.3	709.1
5°	748.6	742.4	723.7	711.2	700.8	677.9	661.3	640.5	619.7	613.5	619.7
7.5°	742.4	729.9	705.0	680.0	636.3	576.0	536.5	492.8	478.3	459.6	461.7
10°	744.5	729.9	694.6	638.4	553.1	463.7	401.3	343.1	314.0	299.4	301.5
12.5°	750.7	734.1	684.2	582.3	459.6	351.4	255.8	210.0	201.7	201.7	201.7
15°	763.2	738.2	667.5	515.7	359.8	232.9	180.9	176.8	183.0	189.2	191.3
17.5°	775.7	750.7	642.6	447.1	262.0	174.7	168.4	168.4	174.7	180.9	183.0
20°	790.2	763.2	607.2	374.3	187.2	164.3	162.2	160.1	164.3	170.5	172.6
22.5°	813.1	775.7	565.6	289.1	162.2	158.0	153.9	151.8	153.9	160.1	162.2
25°	833.9	792.3	522.0	214.2	151.8	147.6	145.6	143.5	143.5	147.6	149.7
27.5°	858.8	811.0	474.1	160.1	139.3	137.2	135.2	133.1	131.0	135.2	137.2
30°	890.0	827.6	422.1	135.2	126.8	124.8	122.7	120.6	118.5	120.6	122.7
32.5°	929.5	850.5	361.8	122.7	116.5	110.2	108.1	108.1	106.1	106.1	108.1
35°	981.5	875.5	297.4	114.4	106.1	99.8	93.6	91.5	91.5	91.5	93.6
37.5°	1058.5	921.2	235.0	106.1	97.7	87.3	81.1	74.9	74.9	74.9	74.9
40°	1164.5	971.1	183.0	99.8	91.5	76.9	68.6	60.3	56.1	54.1	56.1
42.5°	1328.8	1046.0	141.4	91.5	87.3	68.6	56.1	45.7	37.4	35.4	37.4
45°	1509.7	1127.1	112.3	85.3	79.0	58.2	43.7	31.2	22.9	20.8	22.9
47.5°	1738.5	1229.0	95.7	76.9	68.6	47.8	31.2	16.6	10.4	12.5	12.5
50°	1958.9	1328.8	87.3	70.7	60.3	39.5	18.7	8.3	4.2	6.2	6.2
52.5°	2202.2	1434.9	81.1	62.4	52.0	29.1	10.4	2.1	0.0	2.1	2.1
55°	2447.6	1530.5	74.9	56.1	41.6	20.8	4.2	0.0	0.0	0.0	2.1
57.5°	2713.8	1611.6	68.6	47.8	31.2	12.5	2.1	0.0	0.0	0.0	0.0
60°	2936.3	1674.0	62.4	41.6	20.8	6.2	0.0	0.0	0.0	0.0	0.0
62.5°	3140.1	1730.1	47.8	31.2	12.5	4.2	0.0	0.0	0.0	0.0	0.0
65°	3275.2	1742.6	33.3	20.8	8.3	2.1	0.0	0.0	0.0	0.0	0.0
67.5°	3214.9	1634.5	20.8	14.6	4.2	2.1	0.0	0.0	0.0	0.0	0.0
70°	2826.0	1372.5	14.6	8.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0
72.5°	1977.6	885.9	12.5	6.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0
75°	1043.9	320.2	8.3	4.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0
77.5°	370.2	70.7	4.2	2.1	0.0	2.1	0.0	0.0	0.0	0.0	0.0
80°	81.1	14.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.9	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	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)