

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: P595295

Luminaire Tested: **IST-PA1E-735-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595295
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-735-U-T4W-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 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: 6861 lumens
Efficiency: N/A
Efficacy: 84.2 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

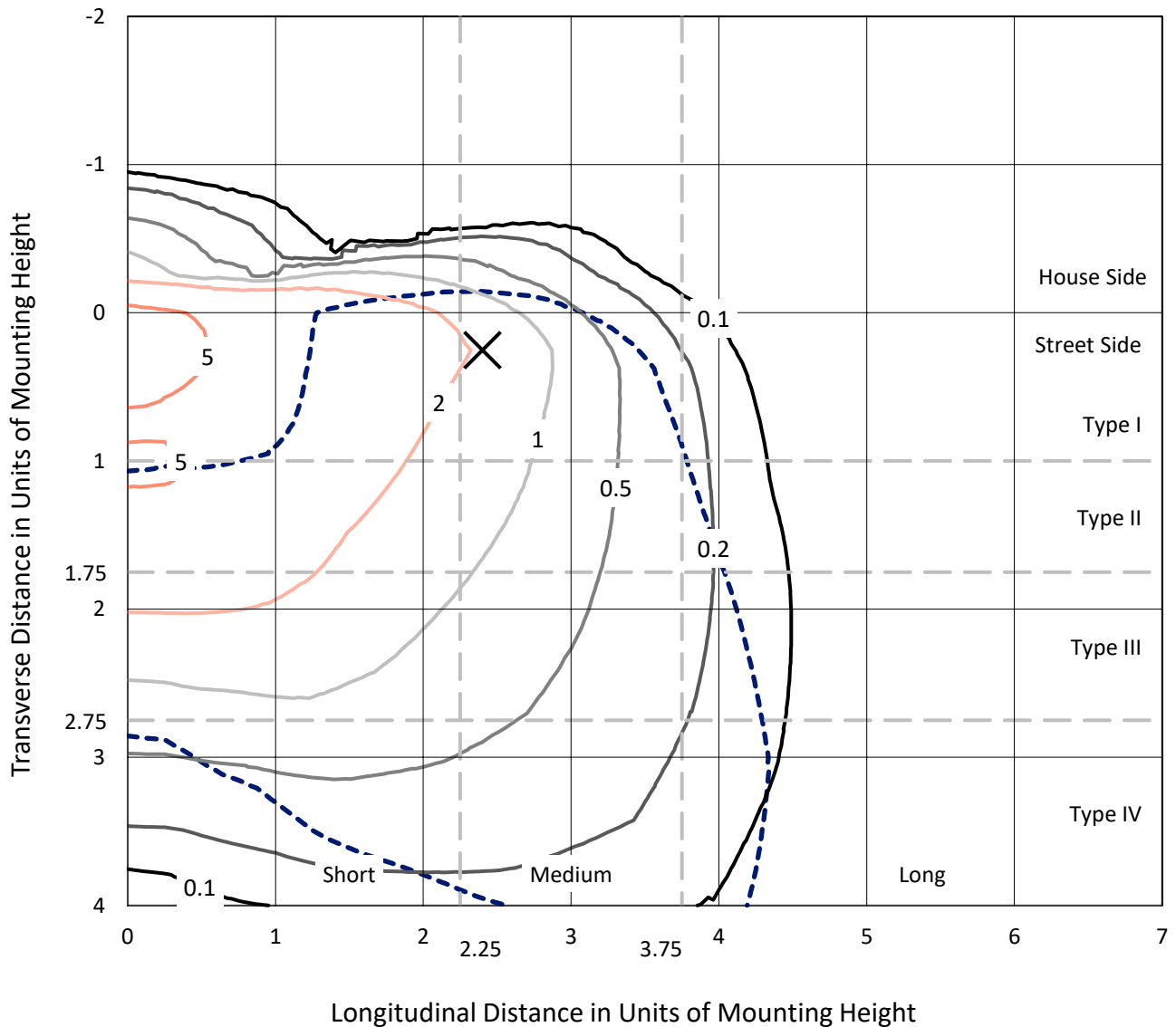
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

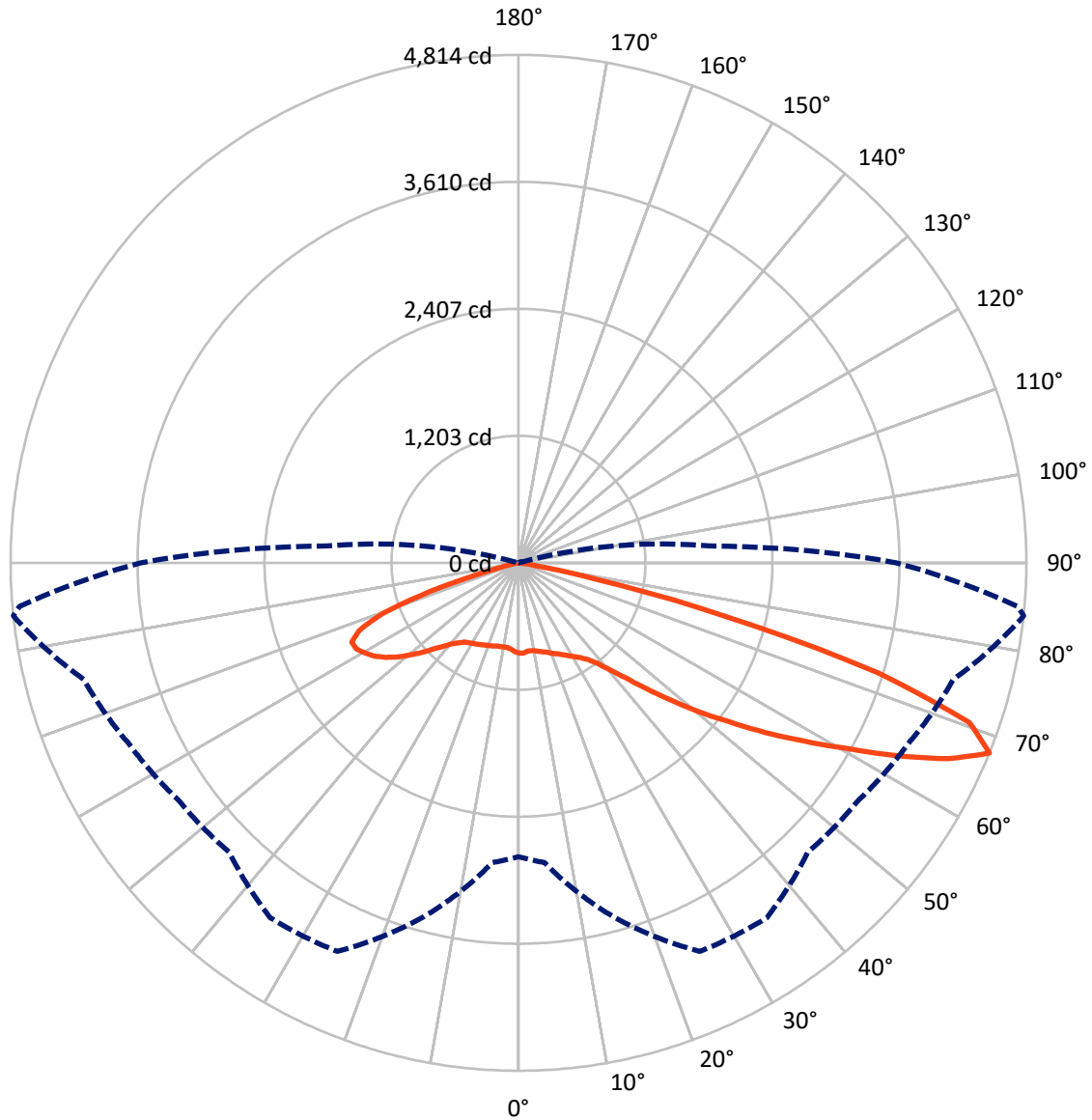
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7 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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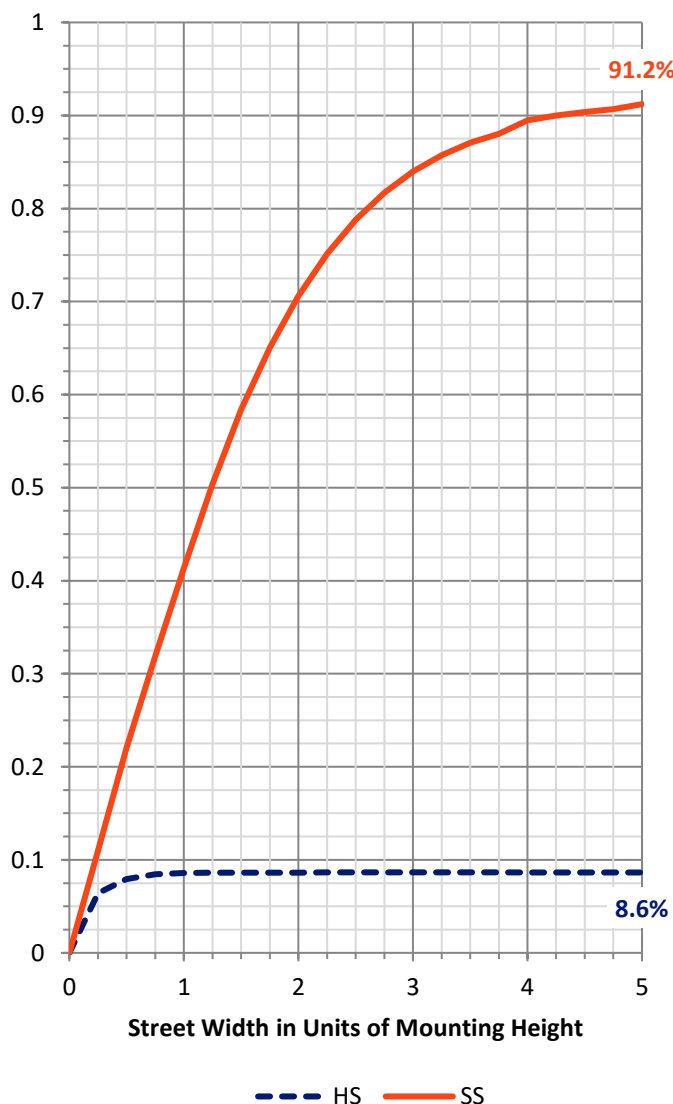
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	597.3	0.0	597.3
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	6263.6	0.0	6263.6
	% Fixture	91.3	0.0	91.3
Total	Lumens	6861.0	0.0	6861.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	1.1
10°-20°	200.5	2.9
20°-30°	321.1	4.7
30°-40°	462.1	6.7
40°-50°	793.1	11.6
50°-60°	1385.6	20.2
60°-70°	1984.3	28.9
70°-80°	1491.4	21.7
80°-90°	146.4	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°	6861.0	100.0
0°-180°	6861.0	100.0

Coefficient of Utilization

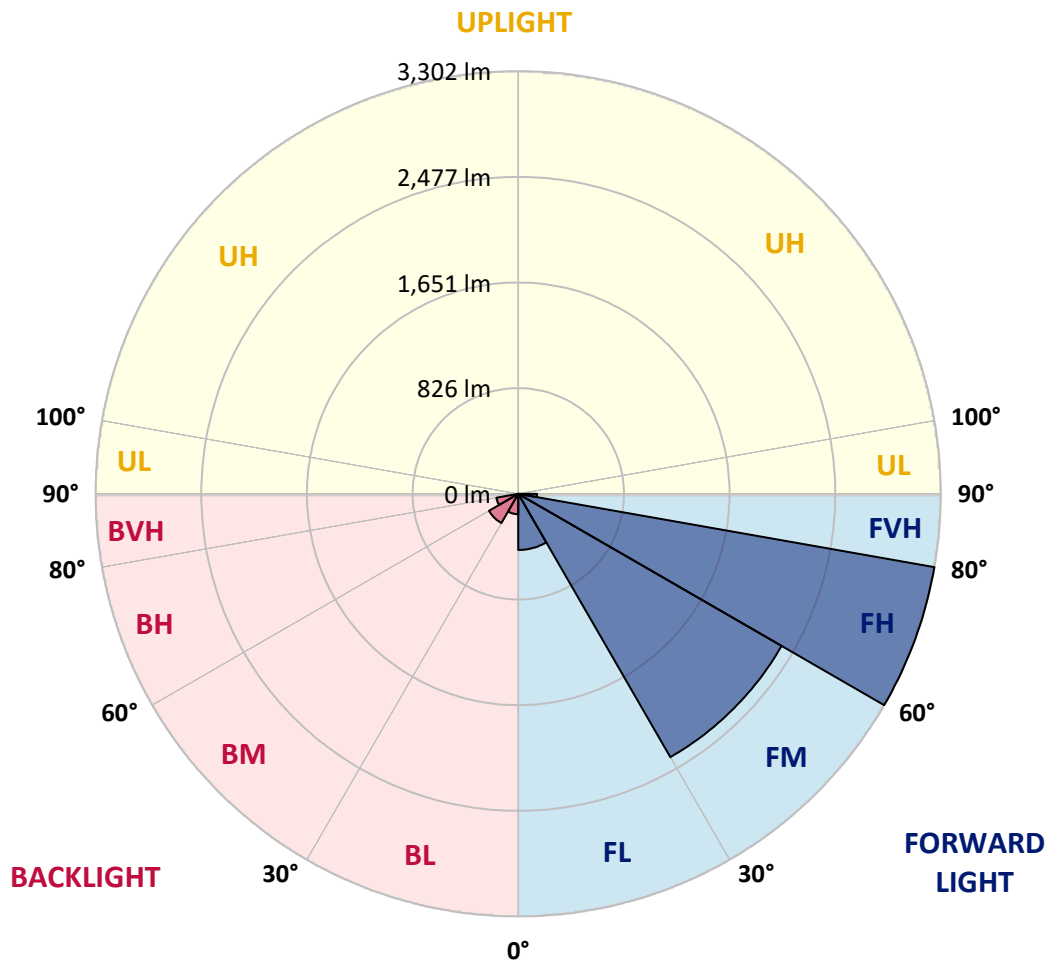


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	438.6	6.4			
FM (30°-60°)	2376.6	34.6			
FH (60°-80°)	3302.5	48.1			G2/5000
FVH (80°-90°)	145.9	2.1			G2/225
BL (0°-30°)	159.5	2.3	B1/500		
BM (30°-60°)	264.2	3.9	B1/1000		
BH (60°-80°)	173.2	2.5	B1/500		G1/500
BVH (80°-90°)	0.5	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-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	854.8	854.8	854.8	854.8	854.8	854.8	854.8	854.8	854.8	854.8	854.8
2.5°	903.4	908.1	910.4	898.8	898.8	889.5	875.6	871.0	864.1	857.1	854.8
5°	949.8	956.7	954.4	940.5	933.6	915.0	896.5	878.0	859.4	843.2	843.2
7.5°	1003.1	1005.4	998.4	975.3	961.4	935.9	908.1	887.2	864.1	840.9	836.3
10°	1049.4	1047.1	1037.8	1014.6	989.2	956.7	926.6	903.4	875.6	847.8	845.5
12.5°	1081.8	1084.1	1072.6	1040.1	1014.6	977.6	947.5	924.3	891.9	861.7	854.8
15°	1109.6	1116.6	1102.7	1070.2	1033.2	1000.7	977.6	947.5	910.4	875.6	871.0
17.5°	1135.1	1137.4	1125.8	1088.8	1054.0	1026.2	1000.7	972.9	935.9	891.9	887.2
20°	1149.0	1155.9	1149.0	1102.7	1070.2	1049.4	1028.5	1000.7	959.0	917.3	912.7
22.5°	1158.3	1165.2	1162.9	1111.9	1084.1	1067.9	1049.4	1023.9	984.5	935.9	931.2
25°	1162.9	1167.5	1172.2	1121.2	1098.0	1091.1	1074.9	1051.7	1014.6	963.7	959.0
27.5°	1169.8	1174.5	1179.1	1132.8	1123.5	1116.6	1111.9	1093.4	1049.4	996.1	989.2
30°	1181.4	1188.4	1193.0	1153.6	1153.6	1160.6	1160.6	1135.1	1086.5	1030.9	1026.2
32.5°	1195.3	1197.6	1206.9	1174.5	1186.1	1202.3	1197.6	1172.2	1121.2	1070.2	1063.3
35°	1232.4	1232.4	1248.6	1206.9	1220.8	1234.7	1239.3	1220.8	1174.5	1123.5	1121.2
37.5°	1322.7	1322.7	1336.6	1269.5	1267.1	1281.0	1297.3	1297.3	1250.9	1204.6	1200.0
40°	1526.6	1526.6	1526.6	1371.4	1345.9	1362.1	1387.6	1401.5	1362.1	1329.7	1329.7
42.5°	1867.1	1869.4	1834.7	1559.0	1450.1	1477.9	1505.7	1535.9	1515.0	1491.8	1487.2
45°	2219.2	2207.6	2203.0	1834.7	1635.5	1621.6	1656.3	1707.3	1714.2	1700.3	1709.6
47.5°	2460.2	2471.7	2478.7	2177.5	1894.9	1799.9	1832.4	1904.2	1945.9	1943.6	1957.5
50°	2694.1	2701.1	2708.0	2555.1	2237.8	2024.6	2045.5	2142.8	2200.7	2219.2	2228.5
52.5°	2898.0	2879.4	2909.6	2888.7	2601.5	2281.8	2281.8	2393.0	2497.2	2504.2	2501.8
55°	2958.2	2969.8	3060.1	3122.7	2974.4	2596.8	2550.5	2668.6	2779.8	2837.7	2837.7
57.5°	3092.6	3104.1	3213.0	3354.3	3245.5	2907.2	2837.7	2953.6	3074.0	3185.2	3201.4
60°	3268.6	3270.9	3386.8	3602.2	3451.6	3187.5	3129.6	3261.7	3382.1	3572.1	3625.4
62.5°	3363.6	3372.9	3532.7	3815.3	3711.1	3433.1	3419.2	3539.7	3694.9	4028.4	4077.1
65°	3217.7	3277.9	3625.4	3942.7	3921.9	3662.4	3711.1	3808.4	3986.7	4475.5	4521.9
67.5°	2784.5	2851.6	3472.5	4063.2	4104.9	3877.9	3928.8	4070.1	4267.0	4813.7	4748.9
70°	2564.4	2620.0	3101.8	4130.4	4257.8	4118.8	4141.9	4274.0	4331.9	4531.1	4461.6
72.5°	1943.6	2001.5	2624.6	3901.0	4389.8	4371.3	4313.4	4204.5	3861.6	3565.1	3396.0
75°	859.4	926.6	1746.7	3048.5	4063.2	4514.9	4209.1	3599.9	2772.9	2024.6	1876.4
77.5°	379.9	419.3	676.4	1693.4	3053.2	3908.0	3328.8	2399.9	1392.2	752.9	699.6
80°	122.8	127.4	213.1	593.0	1561.3	2587.6	2038.5	1153.6	428.6	176.1	164.5
82.5°	48.6	53.3	101.9	250.2	646.3	1028.5	1000.7	417.0	125.1	46.3	46.3
85°	13.9	16.2	51.0	132.0	229.3	289.6	354.4	139.0	67.2	13.9	13.9
87.5°	4.6	4.6	18.5	41.7	44.0	30.1	67.2	53.3	41.7	4.6	4.6
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°	854.8	854.8	854.8	854.8	854.8	854.8	854.8	854.8	854.8	854.8	854.8
2.5°	850.2	845.5	833.9	824.7	820.1	813.1	803.8	799.2	799.2	796.9	789.9
5°	833.9	827.0	806.2	792.3	780.7	755.2	736.7	713.5	690.3	683.4	690.3
7.5°	827.0	813.1	785.3	757.5	708.9	641.7	597.7	549.0	532.8	512.0	514.3
10°	829.3	813.1	773.7	711.2	616.2	516.6	447.1	382.2	349.8	333.6	335.9
12.5°	836.3	817.7	762.1	648.6	512.0	391.5	284.9	234.0	224.7	224.7	224.7
15°	850.2	822.4	743.6	574.5	400.8	259.5	201.5	196.9	203.9	210.8	213.1
17.5°	864.1	836.3	715.8	498.1	291.9	194.6	187.6	187.6	194.6	201.5	203.9
20°	880.3	850.2	676.4	417.0	208.5	183.0	180.7	178.4	183.0	190.0	192.3
22.5°	905.8	864.1	630.1	322.0	180.7	176.1	171.4	169.1	171.4	178.4	180.7
25°	928.9	882.6	581.4	238.6	169.1	164.5	162.2	159.8	159.8	164.5	166.8
27.5°	956.7	903.4	528.2	178.4	155.2	152.9	150.6	148.3	145.9	150.6	152.9
30°	991.5	922.0	470.3	150.6	141.3	139.0	136.7	134.4	132.0	134.4	136.7
32.5°	1035.5	947.5	403.1	136.7	129.7	122.8	120.5	120.5	118.1	118.1	120.5
35°	1093.4	975.3	331.3	127.4	118.1	111.2	104.2	101.9	101.9	101.9	104.2
37.5°	1179.1	1026.2	261.8	118.1	108.9	97.3	90.3	83.4	83.4	83.4	83.4
40°	1297.3	1081.8	203.9	111.2	101.9	85.7	76.4	67.2	62.5	60.2	62.5
42.5°	1480.3	1165.2	157.5	101.9	97.3	76.4	62.5	51.0	41.7	39.4	41.7
45°	1681.8	1255.6	125.1	95.0	88.0	64.9	48.6	34.7	25.5	23.2	25.5
47.5°	1936.6	1369.1	106.6	85.7	76.4	53.3	34.7	18.5	11.6	13.9	13.9
50°	2182.2	1480.3	97.3	78.8	67.2	44.0	20.8	9.3	4.6	6.9	6.9
52.5°	2453.2	1598.4	90.3	69.5	57.9	32.4	11.6	2.3	0.0	2.3	2.3
55°	2726.6	1705.0	83.4	62.5	46.3	23.2	4.6	0.0	0.0	0.0	2.3
57.5°	3023.1	1795.3	76.4	53.3	34.7	13.9	2.3	0.0	0.0	0.0	0.0
60°	3270.9	1864.8	69.5	46.3	23.2	6.9	0.0	0.0	0.0	0.0	0.0
62.5°	3498.0	1927.3	53.3	34.7	13.9	4.6	0.0	0.0	0.0	0.0	0.0
65°	3648.5	1941.2	37.1	23.2	9.3	2.3	0.0	0.0	0.0	0.0	0.0
67.5°	3581.3	1820.8	23.2	16.2	4.6	2.3	0.0	0.0	0.0	0.0	0.0
70°	3148.2	1528.9	16.2	9.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0
72.5°	2203.0	986.8	13.9	6.9	2.3	2.3	0.0	0.0	0.0	0.0	0.0
75°	1162.9	356.7	9.3	4.6	2.3	2.3	0.0	0.0	0.0	0.0	0.0
77.5°	412.3	78.8	4.6	2.3	0.0	2.3	0.0	0.0	0.0	0.0	0.0
80°	90.3	16.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	25.5	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	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)