

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: P595367

Luminaire Tested: **IST-PA1F-730-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595367
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-PA1F-730-U-T4W-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 1200mA 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: 7363 lumens
Efficiency: N/A
Efficacy: 78.7 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

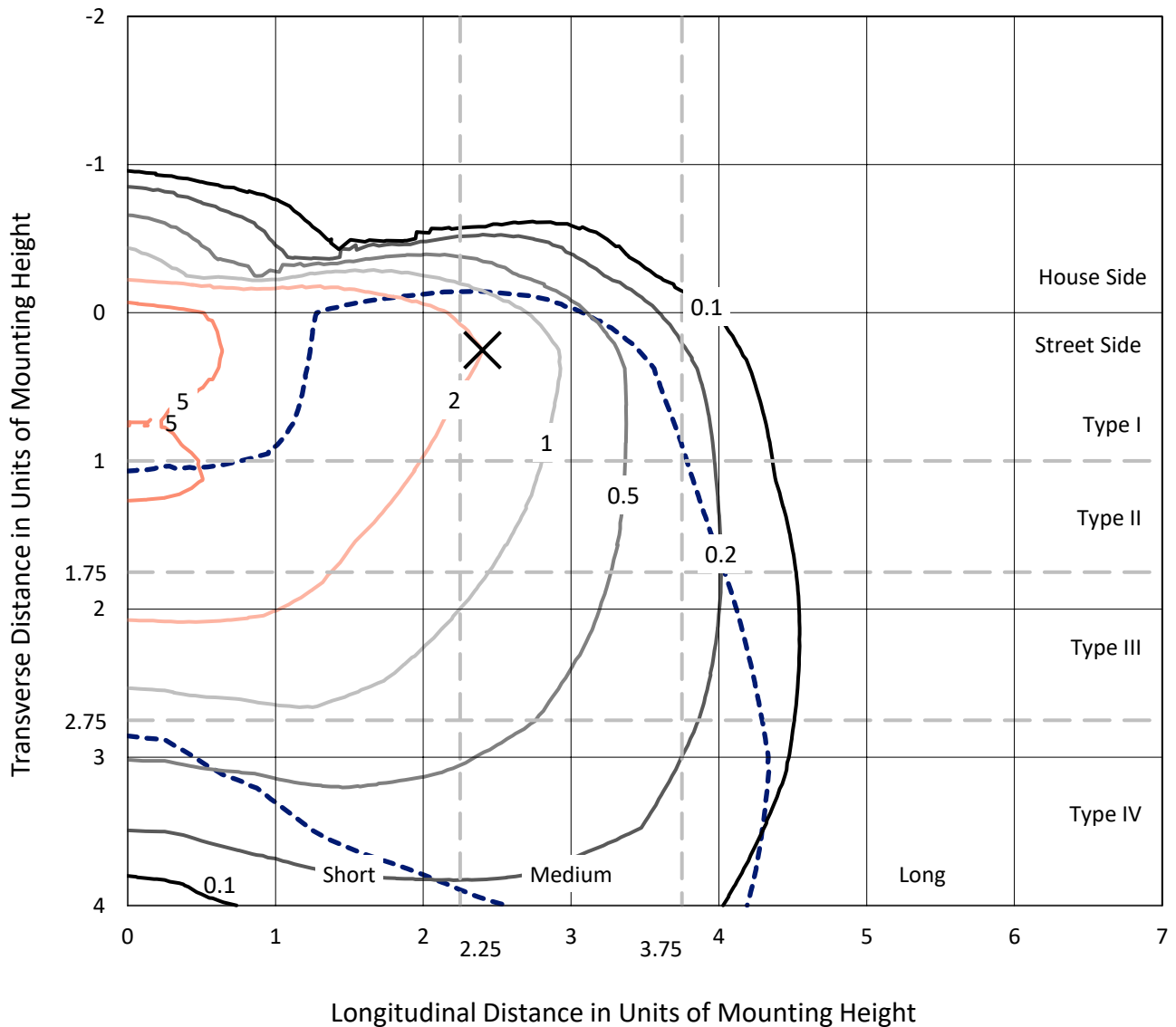
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

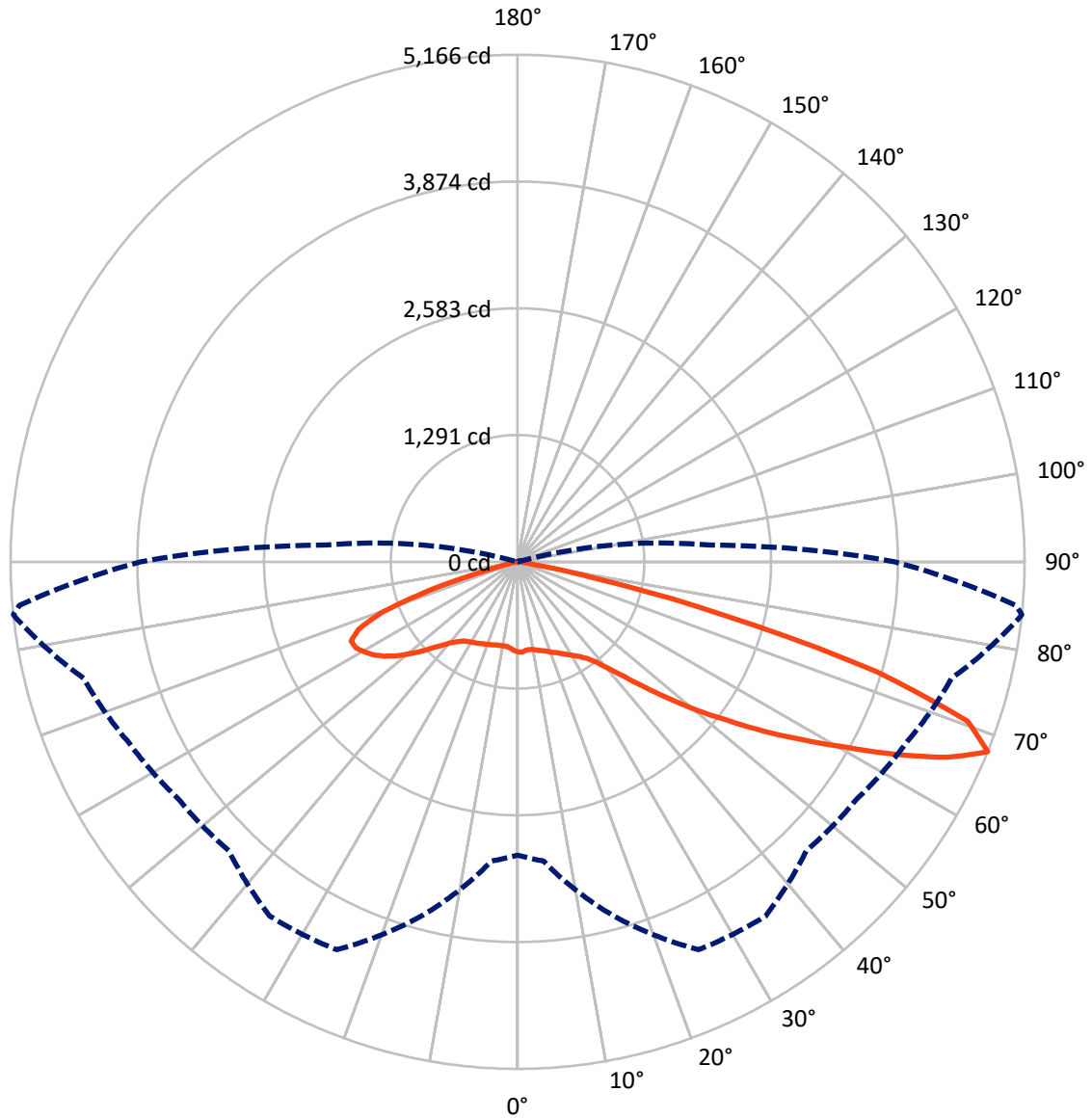
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.5 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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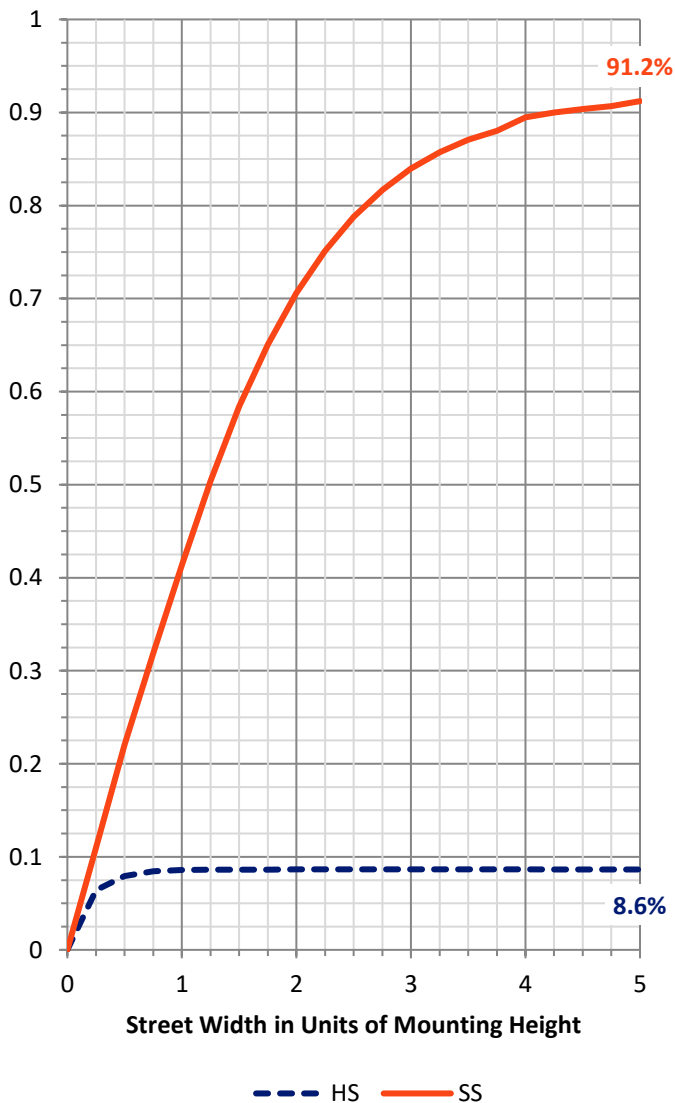
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	641.1	0.0	641.1
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	6721.9	0.0	6721.9
	% Fixture	91.3	0.0	91.3
Total	Lumens	7363.0	0.0	7363.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	1.1
10°-20°	215.1	2.9
20°-30°	344.6	4.7
30°-40°	495.9	6.7
40°-50°	851.1	11.6
50°-60°	1487.0	20.2
60°-70°	2129.5	28.9
70°-80°	1600.5	21.7
80°-90°	157.1	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°	7363.0	100.0
0°-180°	7363.0	100.0

Coefficient of Utilization

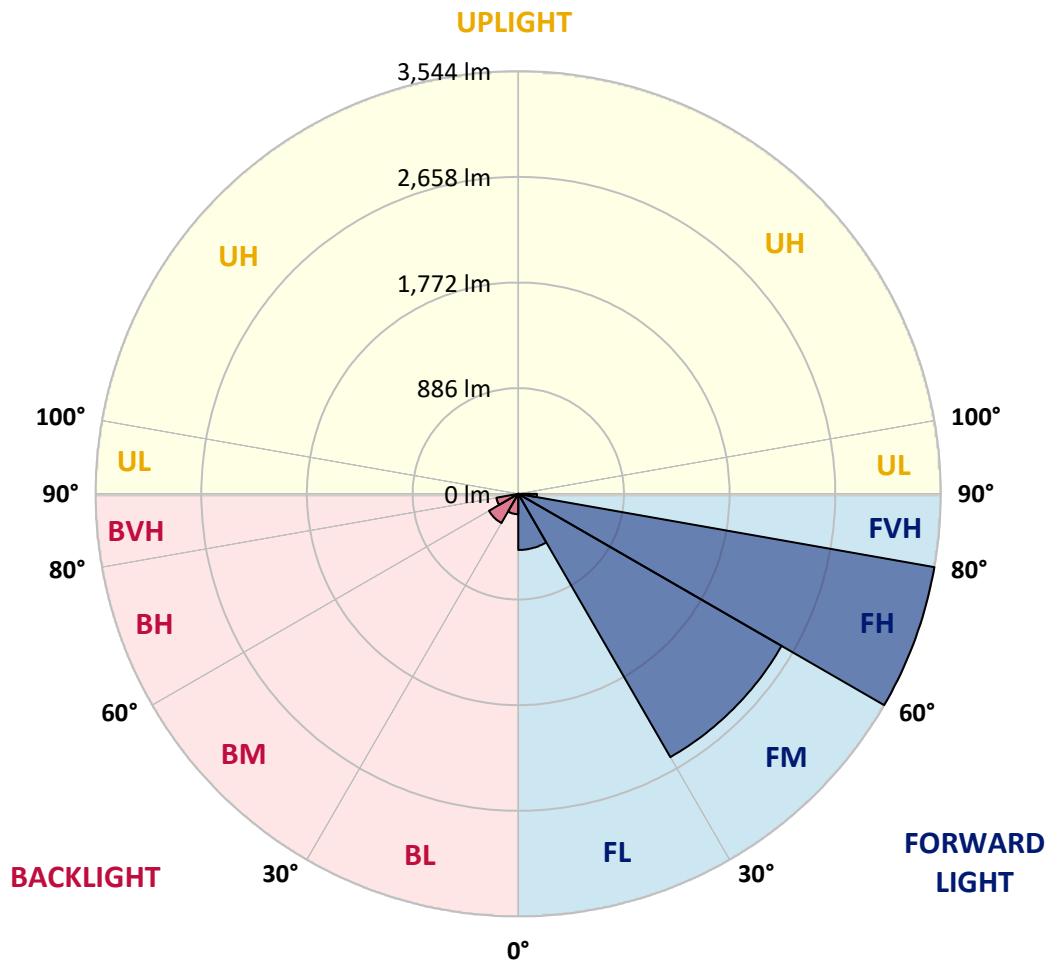


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	470.7	6.4			
FM (30°-60°)	2550.5	34.6			
FH (60°-80°)	3544.1	48.1			G2/5000
FVH (80°-90°)	156.6	2.1			G2/225
BL (0°-30°)	171.2	2.3	B1/500		
BM (30°-60°)	283.5	3.9	B1/1000		
BH (60°-80°)	185.9	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°	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3
2.5°	969.5	974.5	977.0	964.6	964.6	954.6	939.7	934.7	927.3	919.8	917.3
5°	1019.3	1026.7	1024.2	1009.3	1001.9	982.0	962.1	942.2	922.3	904.9	904.9
7.5°	1076.4	1078.9	1071.5	1046.6	1031.7	1004.4	974.5	952.1	927.3	902.4	897.5
10°	1126.2	1123.7	1113.7	1088.9	1061.5	1026.7	994.4	969.5	939.7	909.9	907.4
12.5°	1161.0	1163.5	1151.0	1116.2	1088.9	1049.1	1016.8	991.9	957.1	924.8	917.3
15°	1190.8	1198.3	1183.3	1148.5	1108.8	1074.0	1049.1	1016.8	977.0	939.7	934.7
17.5°	1218.1	1220.6	1208.2	1168.4	1131.1	1101.3	1074.0	1044.1	1004.4	957.1	952.1
20°	1233.1	1240.5	1233.1	1183.3	1148.5	1126.2	1103.8	1074.0	1029.2	984.5	979.5
22.5°	1243.0	1250.5	1248.0	1193.3	1163.5	1146.1	1126.2	1098.8	1056.6	1004.4	999.4
25°	1248.0	1253.0	1257.9	1203.2	1178.4	1170.9	1153.5	1128.7	1088.9	1034.2	1029.2
27.5°	1255.4	1260.4	1265.4	1215.7	1205.7	1198.3	1193.3	1173.4	1126.2	1069.0	1061.5
30°	1267.9	1275.3	1280.3	1238.0	1238.0	1245.5	1245.5	1218.1	1165.9	1106.3	1101.3
32.5°	1282.8	1285.3	1295.2	1260.4	1272.8	1290.2	1285.3	1257.9	1203.2	1148.5	1141.1
35°	1322.6	1322.6	1340.0	1295.2	1310.1	1325.0	1330.0	1310.1	1260.4	1205.7	1203.2
37.5°	1419.5	1419.5	1434.4	1362.3	1359.9	1374.8	1392.2	1392.2	1342.5	1292.7	1287.8
40°	1638.3	1638.3	1638.3	1471.7	1444.4	1461.8	1489.1	1504.0	1461.8	1427.0	1427.0
42.5°	2003.7	2006.2	1968.9	1673.1	1556.2	1586.1	1615.9	1648.2	1625.9	1601.0	1596.0
45°	2381.6	2369.2	2364.2	1968.9	1755.1	1740.2	1777.5	1832.2	1839.7	1824.7	1834.7
47.5°	2640.2	2652.6	2660.0	2336.9	2033.6	1931.6	1966.4	2043.5	2088.3	2085.8	2100.7
50°	2891.2	2898.7	2906.2	2742.1	2401.5	2172.8	2195.2	2299.6	2361.7	2381.6	2391.6
52.5°	3110.0	3090.1	3122.4	3100.1	2791.8	2448.7	2448.7	2568.1	2679.9	2687.4	2684.9
55°	3174.6	3187.1	3284.0	3351.2	3192.0	2786.8	2737.1	2863.9	2983.2	3045.4	3045.4
57.5°	3318.8	3331.3	3448.1	3599.8	3482.9	3120.0	3045.4	3169.7	3298.9	3418.3	3435.7
60°	3507.8	3510.3	3634.6	3865.8	3704.2	3420.8	3358.6	3500.3	3629.6	3833.4	3890.6
62.5°	3609.7	3619.6	3791.2	4094.5	3982.6	3684.3	3669.4	3798.6	3965.2	4323.2	4375.4
65°	3453.1	3517.7	3890.6	4231.2	4208.8	3930.4	3982.6	4087.0	4278.4	4803.0	4852.7
67.5°	2988.2	3060.3	3726.5	4360.5	4405.2	4161.6	4216.3	4367.9	4579.2	5165.9	5096.3
70°	2752.0	2811.7	3328.8	4432.6	4569.3	4420.1	4445.0	4586.7	4648.9	4862.7	4788.1
72.5°	2085.8	2147.9	2816.7	4186.5	4711.0	4691.1	4629.0	4512.1	4144.2	3826.0	3644.5
75°	922.3	994.4	1874.5	3271.6	4360.5	4845.3	4517.1	3863.3	2975.8	2172.8	2013.7
77.5°	407.7	450.0	725.9	1817.3	3276.6	4193.9	3572.4	2575.5	1494.1	808.0	750.8
80°	131.8	136.7	228.7	636.4	1675.6	2776.9	2187.7	1238.0	459.9	188.9	176.5
82.5°	52.2	57.2	109.4	268.5	693.6	1103.8	1074.0	447.5	134.2	49.7	49.7
85°	14.9	17.4	54.7	141.7	246.1	310.8	380.4	149.2	72.1	14.9	14.9
87.5°	5.0	5.0	19.9	44.7	47.2	32.3	72.1	57.2	44.7	5.0	5.0
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°	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3
2.5°	912.4	907.4	895.0	885.0	880.1	872.6	862.6	857.7	857.7	855.2	847.7
5°	895.0	887.5	865.1	850.2	837.8	810.4	790.6	765.7	740.8	733.4	740.8
7.5°	887.5	872.6	842.8	812.9	760.7	688.6	641.4	589.2	571.8	549.4	551.9
10°	890.0	872.6	830.3	763.2	661.3	554.4	479.8	410.2	375.4	358.0	360.5
12.5°	897.5	877.6	817.9	696.1	549.4	420.1	305.8	251.1	241.1	241.1	241.1
15°	912.4	882.5	798.0	616.5	430.1	278.4	216.3	211.3	218.8	226.2	228.7
17.5°	927.3	897.5	768.2	534.5	313.2	208.8	201.4	201.4	208.8	216.3	218.8
20°	944.7	912.4	725.9	447.5	223.7	196.4	193.9	191.4	196.4	203.9	206.3
22.5°	972.0	927.3	676.2	345.6	193.9	188.9	184.0	181.5	184.0	191.4	193.9
25°	996.9	947.2	624.0	256.1	181.5	176.5	174.0	171.5	171.5	176.5	179.0
27.5°	1026.7	969.5	566.8	191.4	166.6	164.1	161.6	159.1	156.6	161.6	164.1
30°	1064.0	989.4	504.7	161.6	151.6	149.2	146.7	144.2	141.7	144.2	146.7
32.5°	1111.3	1016.8	432.6	146.7	139.2	131.8	129.3	129.3	126.8	126.8	129.3
35°	1173.4	1046.6	355.5	136.7	126.8	119.3	111.9	109.4	109.4	109.4	111.9
37.5°	1265.4	1101.3	280.9	126.8	116.8	104.4	97.0	89.5	89.5	89.5	89.5
40°	1392.2	1161.0	218.8	119.3	109.4	92.0	82.0	72.1	67.1	64.6	67.1
42.5°	1588.6	1250.5	169.0	109.4	104.4	82.0	67.1	54.7	44.7	42.3	44.7
45°	1804.8	1347.4	134.2	101.9	94.5	69.6	52.2	37.3	27.3	24.9	27.3
47.5°	2078.3	1469.2	114.4	92.0	82.0	57.2	37.3	19.9	12.4	14.9	14.9
50°	2341.8	1588.6	104.4	84.5	72.1	47.2	22.4	9.9	5.0	7.5	7.5
52.5°	2632.7	1715.4	97.0	74.6	62.2	34.8	12.4	2.5	0.0	2.5	2.5
55°	2926.0	1829.7	89.5	67.1	49.7	24.9	5.0	0.0	0.0	0.0	2.5
57.5°	3244.3	1926.7	82.0	57.2	37.3	14.9	2.5	0.0	0.0	0.0	0.0
60°	3510.3	2001.2	74.6	49.7	24.9	7.5	0.0	0.0	0.0	0.0	0.0
62.5°	3753.9	2068.4	57.2	37.3	14.9	5.0	0.0	0.0	0.0	0.0	0.0
65°	3915.5	2083.3	39.8	24.9	9.9	2.5	0.0	0.0	0.0	0.0	0.0
67.5°	3843.4	1954.0	24.9	17.4	5.0	2.5	0.0	0.0	0.0	0.0	0.0
70°	3378.5	1640.8	17.4	9.9	2.5	2.5	0.0	0.0	0.0	0.0	0.0
72.5°	2364.2	1059.0	14.9	7.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
75°	1248.0	382.8	9.9	5.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0
77.5°	442.5	84.5	5.0	2.5	0.0	2.5	0.0	0.0	0.0	0.0	0.0
80°	97.0	17.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	27.3	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	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)