

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: P595293

Luminaire Tested: **IST-PA1E-735-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595293
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-735-U-T3-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 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: 6956 lumens
Efficiency: N/A
Efficacy: 85.3 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

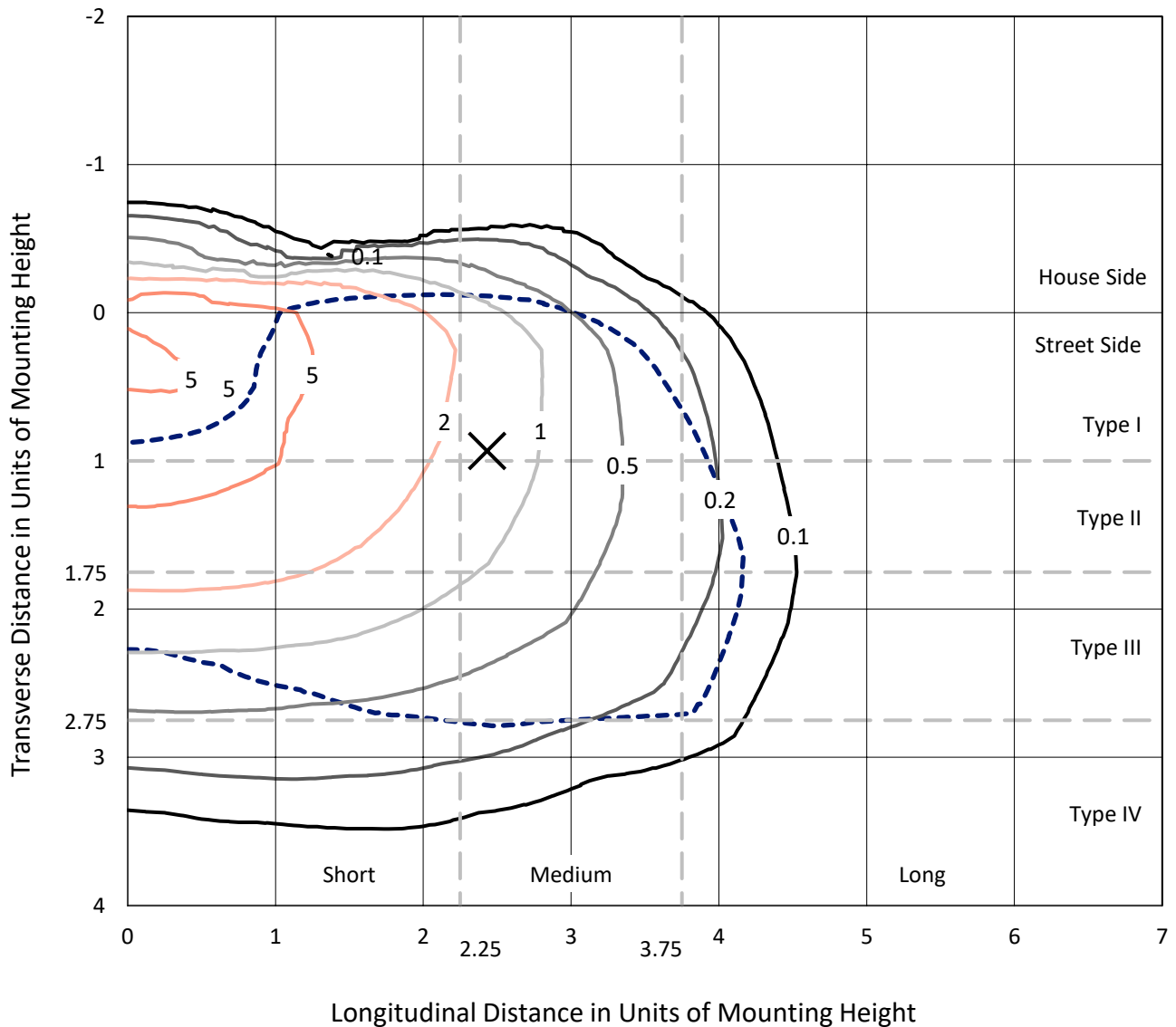
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P595293
 CATALOG NUMBER: IST-PA1E-735-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

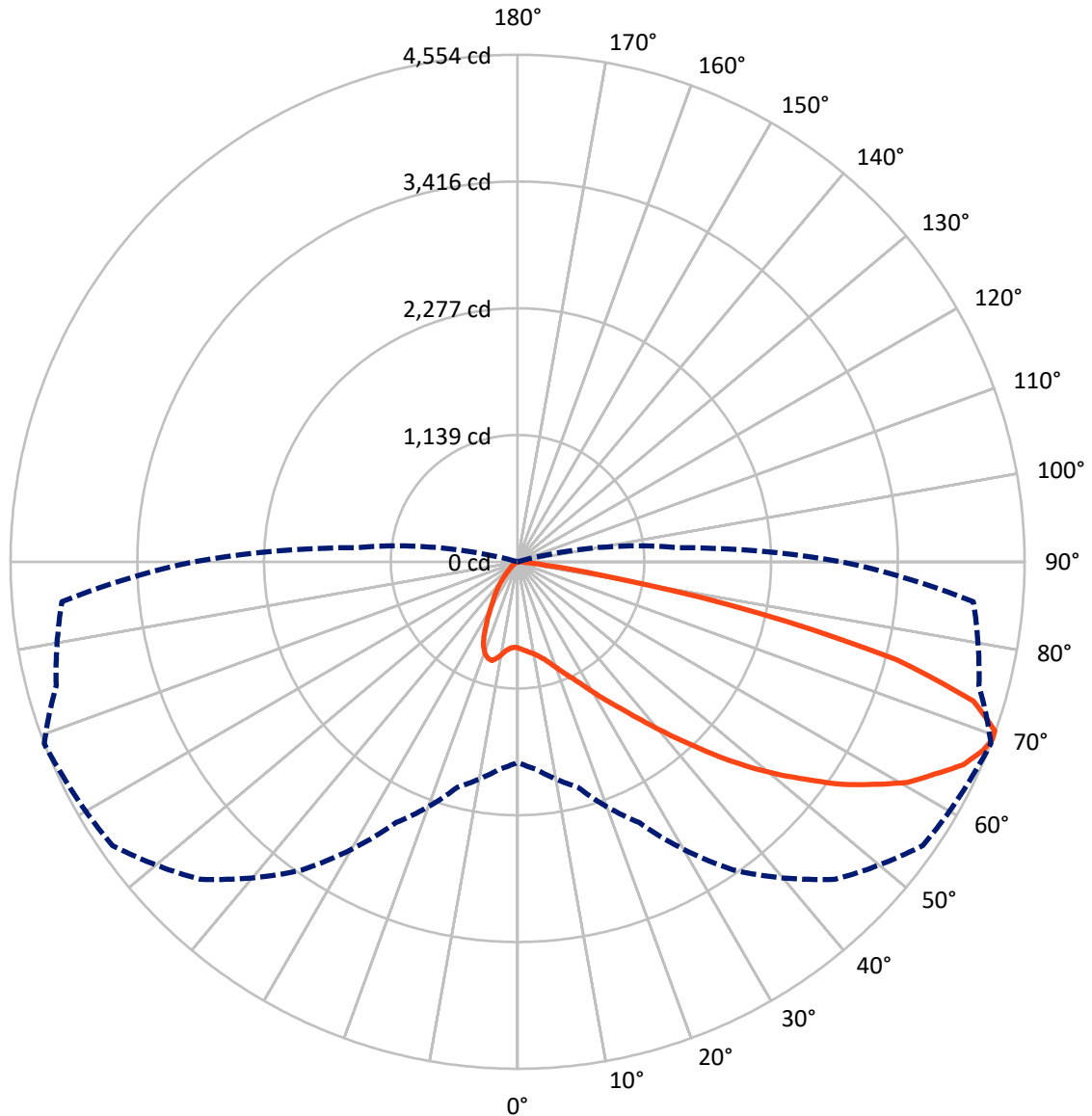
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P595293
CATALOG NUMBER: IST-PA1E-735-U-T3-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: IST-PA1E-735-U-T3-HSS

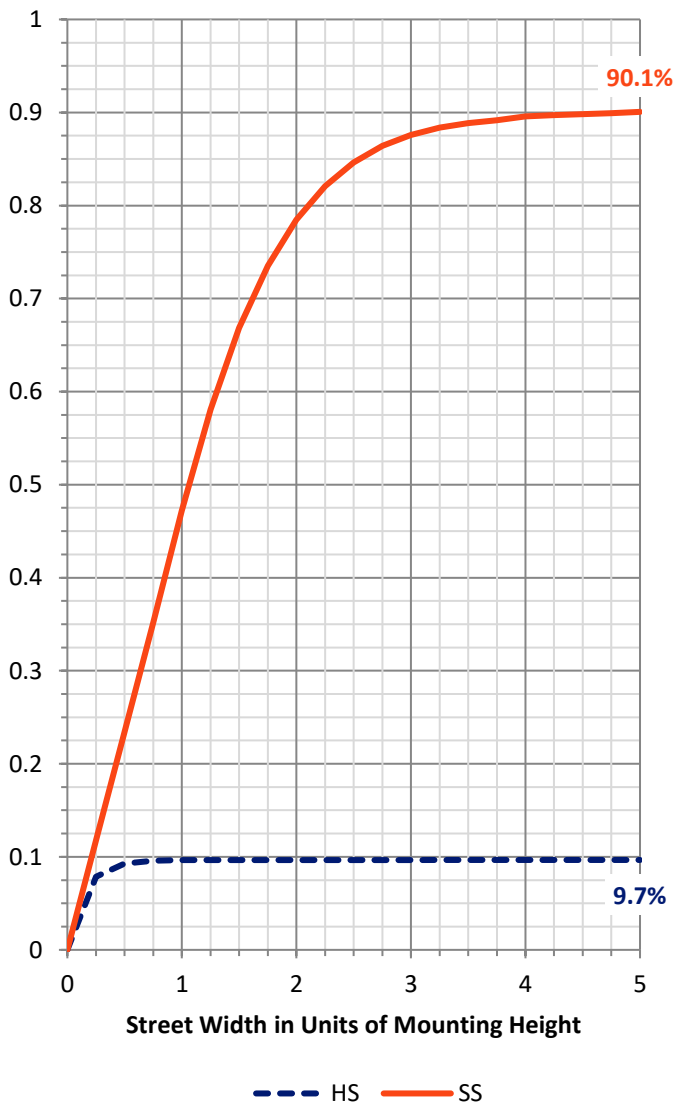
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	677.8	0.0	677.8
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	6278.2	0.0	6278.2
	% Fixture	90.3	0.0	90.3
Total	Lumens	6956.0	0.0	6956.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	1.1
10°-20°	195.2	2.8
20°-30°	325.0	4.7
30°-40°	585.1	8.4
40°-50°	1060.9	15.3
50°-60°	1658.0	23.8
60°-70°	1918.2	27.6
70°-80°	1072.7	15.4
80°-90°	67.0	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°	6956.0	100.0
0°-180°	6956.0	100.0

Coefficient of Utilization

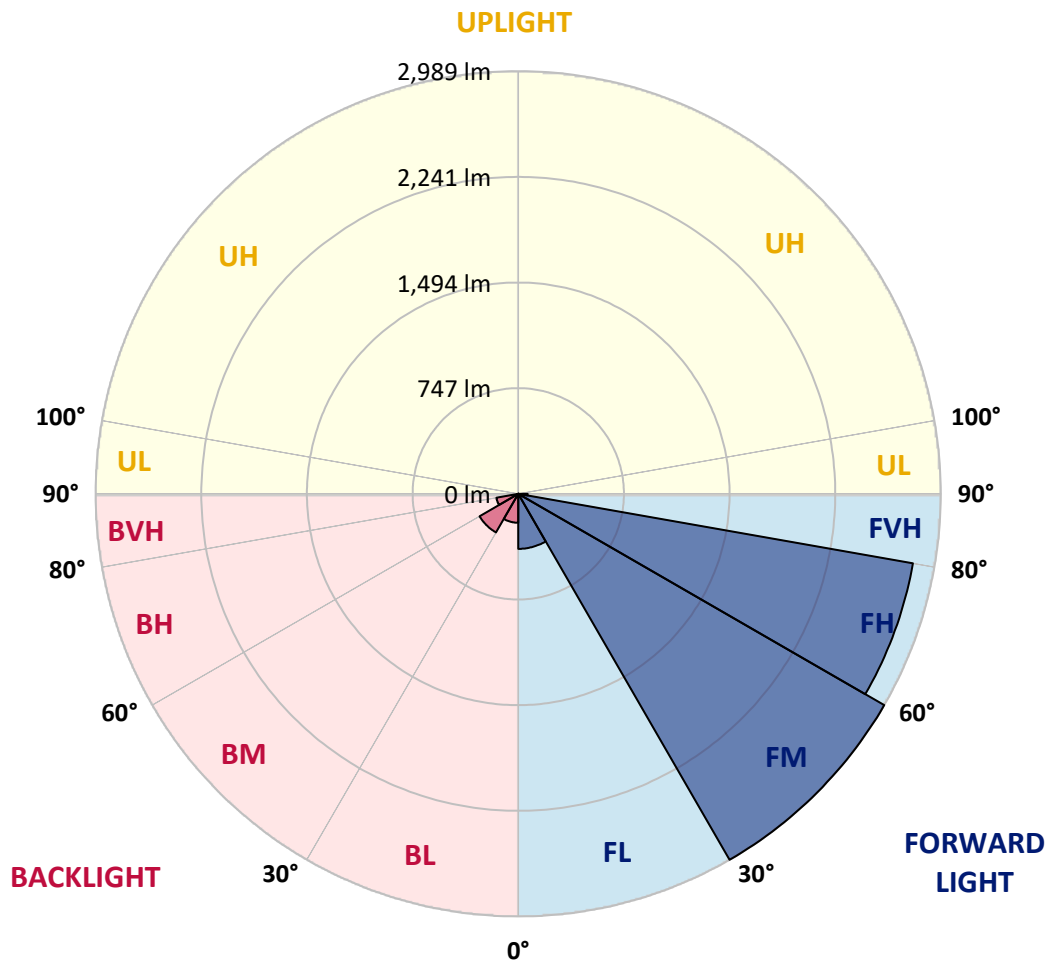


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 CATALOG NUMBER: IST-PA1E-735-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	389.2	5.6			
FM (30°-60°)	2988.5	43.0			
FH (60°-80°)	2834.1	40.7			G2/5000
FVH (80°-90°)	66.5	1.0			G1/100
BL (0°-30°)	204.8	2.9	B1/500		
BM (30°-60°)	315.5	4.5	B1/1000		
BH (60°-80°)	156.9	2.3	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7
2.5°	801.5	801.5	801.5	796.9	799.2	796.9	794.6	787.6	790.0	787.6	780.7
5°	773.7	776.1	783.0	787.6	799.2	803.9	806.2	806.2	803.9	799.2	794.6
7.5°	720.5	720.5	727.4	741.3	764.5	790.0	810.8	822.4	824.7	824.7	817.8
10°	706.6	706.6	715.8	725.1	748.3	778.4	810.8	838.6	843.2	847.9	845.6
12.5°	699.6	701.9	711.2	727.4	757.5	785.3	820.1	859.5	873.4	884.9	887.3
15°	708.9	708.9	718.1	734.4	769.1	808.5	852.5	896.5	910.4	926.6	938.2
17.5°	722.8	727.4	732.0	748.3	780.7	829.3	887.3	945.2	961.4	982.2	991.5
20°	745.9	745.9	750.6	764.5	799.2	857.1	938.2	1007.7	1021.6	1035.5	1047.1
22.5°	773.7	776.1	776.1	787.6	827.0	889.6	982.2	1068.0	1091.1	1098.1	1102.7
25°	857.1	852.5	836.3	829.3	859.5	926.6	1035.5	1139.8	1165.2	1172.2	1162.9
27.5°	1030.9	1012.4	968.3	922.0	917.4	984.6	1107.3	1230.1	1257.9	1260.2	1227.8
30°	1248.6	1251.0	1179.1	1079.5	1012.4	1047.1	1186.1	1343.6	1371.4	1359.8	1308.9
32.5°	1517.4	1505.8	1452.5	1308.9	1174.5	1144.4	1271.8	1461.8	1494.2	1475.7	1408.5
35°	1746.7	1753.7	1688.8	1561.4	1392.3	1295.0	1376.1	1593.8	1633.2	1600.8	1517.4
37.5°	1939.0	1948.3	1908.9	1804.6	1654.0	1501.2	1512.7	1749.0	1802.3	1769.9	1665.6
40°	2152.1	2159.1	2142.9	2029.3	1895.0	1746.7	1695.7	1927.4	1999.2	1955.2	1846.3
42.5°	2386.1	2411.6	2383.8	2293.4	2154.4	2027.0	1950.6	2145.2	2217.0	2189.2	2043.2
45°	2705.8	2708.1	2675.7	2585.3	2441.7	2337.4	2244.8	2376.8	2469.5	2434.7	2263.3
47.5°	2942.1	2958.3	2939.8	2877.2	2761.4	2691.9	2564.5	2631.7	2729.0	2684.9	2490.3
50°	3122.8	3166.8	3150.6	3169.1	3111.2	3081.1	2886.5	2895.7	2990.7	2953.7	2722.0
52.5°	3222.4	3278.0	3282.6	3377.6	3426.2	3500.4	3199.2	3185.3	3245.6	3213.1	2958.3
55°	3208.5	3222.4	3338.2	3512.0	3701.9	3871.0	3505.0	3447.1	3530.5	3440.1	3208.5
57.5°	3074.1	3108.9	3312.7	3528.2	3864.1	4109.6	3769.1	3704.2	3773.7	3653.3	3465.6
60°	2881.8	2932.8	3194.6	3502.7	3959.1	4253.3	4026.2	3961.4	4023.9	3878.0	3757.5
62.5°	2708.1	2731.3	2972.2	3396.1	3903.5	4246.3	4225.5	4165.2	4202.3	4049.4	4007.7
65°	2460.2	2469.5	2708.1	3203.9	3780.7	4200.0	4334.4	4357.5	4396.9	4193.0	4186.1
67.5°	2078.0	2098.8	2335.1	2867.9	3576.8	4109.6	4420.1	4466.4	4512.7	4269.5	4218.5
69°	1802.3	1869.5	2096.5	2585.3	3379.9	4033.2	4443.2	4517.4	4554.4	4290.3	4109.6
70°	1577.6	1635.5	1897.3	2367.6	3206.2	3947.5	4459.4	4510.4	4547.5	4246.3	3931.3
72.5°	792.3	866.4	1225.5	1728.2	2548.3	3556.0	4376.0	4320.5	4281.1	3905.8	3180.7
75°	305.8	317.4	525.9	984.6	1593.8	2610.8	3736.7	3632.4	3516.6	2962.9	1885.7
77.5°	169.1	166.8	229.3	435.5	678.8	1276.4	2527.4	2360.6	2200.8	1591.5	764.5
80°	71.8	76.4	99.6	208.5	356.8	442.5	1227.8	1091.1	868.7	505.0	183.0
82.5°	44.0	46.3	69.5	127.4	247.9	169.1	398.5	340.5	250.2	136.7	44.0
85°	13.9	16.2	48.6	85.7	120.5	69.5	90.3	78.8	69.5	57.9	13.9
87.5°	2.3	2.3	18.5	46.3	32.4	11.6	9.3	16.2	25.5	27.8	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°	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7	773.7
2.5°	778.4	773.7	769.1	766.8	766.8	762.2	759.8	757.5	757.5	755.2	755.2
5°	787.6	783.0	778.4	776.1	771.4	769.1	769.1	769.1	766.8	769.1	771.4
7.5°	810.8	803.9	801.5	799.2	799.2	792.3	780.7	750.6	720.5	711.2	701.9
10°	843.2	840.9	840.9	840.9	824.7	764.5	681.1	606.9	567.6	535.1	535.1
12.5°	889.6	889.6	887.3	880.3	796.9	651.0	521.2	410.0	345.2	308.1	312.7
15°	940.5	938.2	942.9	898.8	701.9	502.7	315.1	222.4	187.6	183.0	183.0
17.5°	993.8	998.5	993.8	850.2	576.8	310.4	187.6	169.1	164.5	164.5	164.5
20°	1049.4	1044.8	1037.8	766.8	419.3	194.6	162.2	157.5	152.9	150.6	150.6
22.5°	1105.0	1100.4	1054.1	660.2	261.8	159.8	152.9	143.6	136.7	134.4	134.4
25°	1158.3	1158.3	1023.9	523.6	178.4	150.6	139.0	129.7	122.8	115.8	115.8
27.5°	1225.5	1230.1	975.3	366.0	150.6	139.0	125.1	111.2	101.9	97.3	97.3
30°	1301.9	1308.9	896.5	238.6	136.7	122.8	108.9	92.7	78.8	74.1	71.8
32.5°	1392.3	1399.2	806.2	157.5	122.8	106.6	90.3	69.5	55.6	53.3	51.0
35°	1508.1	1491.9	697.3	125.1	106.6	90.3	69.5	48.6	39.4	37.1	37.1
37.5°	1651.7	1617.0	572.2	108.9	90.3	71.8	51.0	32.4	25.5	25.5	23.2
40°	1816.2	1718.9	442.5	97.3	76.4	55.6	32.4	20.8	16.2	16.2	16.2
42.5°	1996.9	1804.6	315.1	85.7	62.5	39.4	20.8	11.6	9.3	9.3	9.3
45°	2205.4	1883.4	215.4	74.1	53.3	27.8	11.6	4.6	4.6	4.6	4.6
47.5°	2413.9	1934.4	143.6	64.9	39.4	16.2	6.9	2.3	2.3	2.3	2.3
50°	2624.7	1973.7	111.2	55.6	27.8	9.3	2.3	0.0	0.0	0.0	0.0
52.5°	2812.3	2001.5	90.3	46.3	18.5	6.9	2.3	0.0	0.0	0.0	0.0
55°	2974.5	2003.9	78.8	37.1	13.9	4.6	0.0	0.0	0.0	0.0	0.0
57.5°	3139.0	1985.3	67.2	27.8	9.3	2.3	0.0	0.0	0.0	0.0	0.0
60°	3238.6	1936.7	53.3	20.8	6.9	2.3	0.0	0.0	0.0	0.0	0.0
62.5°	3298.8	1855.6	41.7	13.9	4.6	2.3	0.0	0.0	0.0	0.0	0.0
65°	3264.1	1753.7	30.1	9.3	4.6	2.3	0.0	0.0	0.0	0.0	0.0
67.5°	3101.9	1596.1	20.8	6.9	2.3	2.3	0.0	0.0	0.0	0.0	0.0
69°	2909.6	1452.5	18.5	4.6	2.3	2.3	0.0	0.0	0.0	0.0	0.0
70°	2740.5	1341.3	16.2	4.6	2.3	2.3	0.0	0.0	0.0	0.0	0.0
72.5°	2040.9	864.1	13.9	4.6	2.3	2.3	0.0	0.0	0.0	0.0	0.0
75°	1146.7	289.6	9.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	430.9	74.1	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	95.0	18.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.9	2.3	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)