

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: P595290

Luminaire Tested: **IST-PA1E-735-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)
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-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9622 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

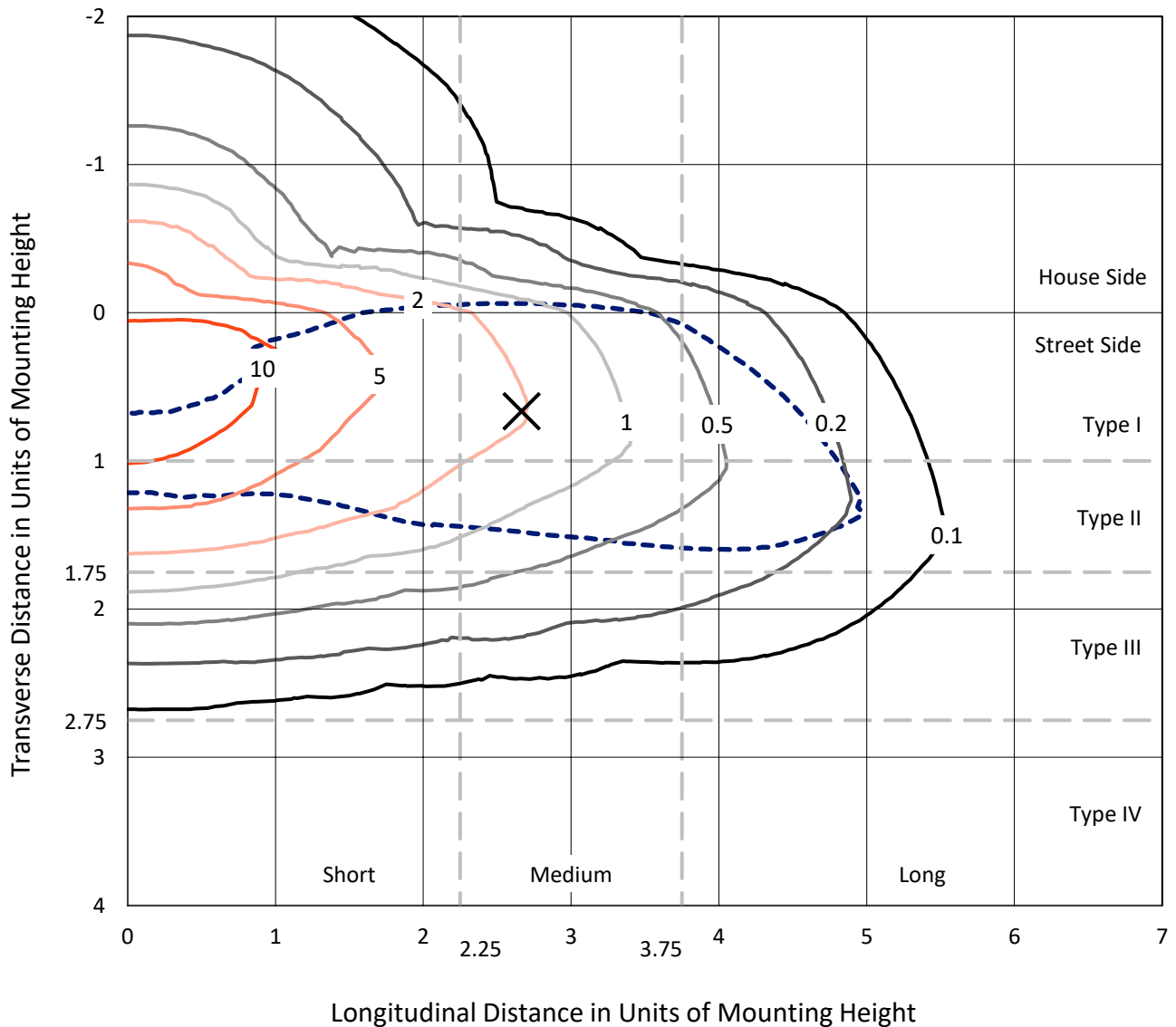
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

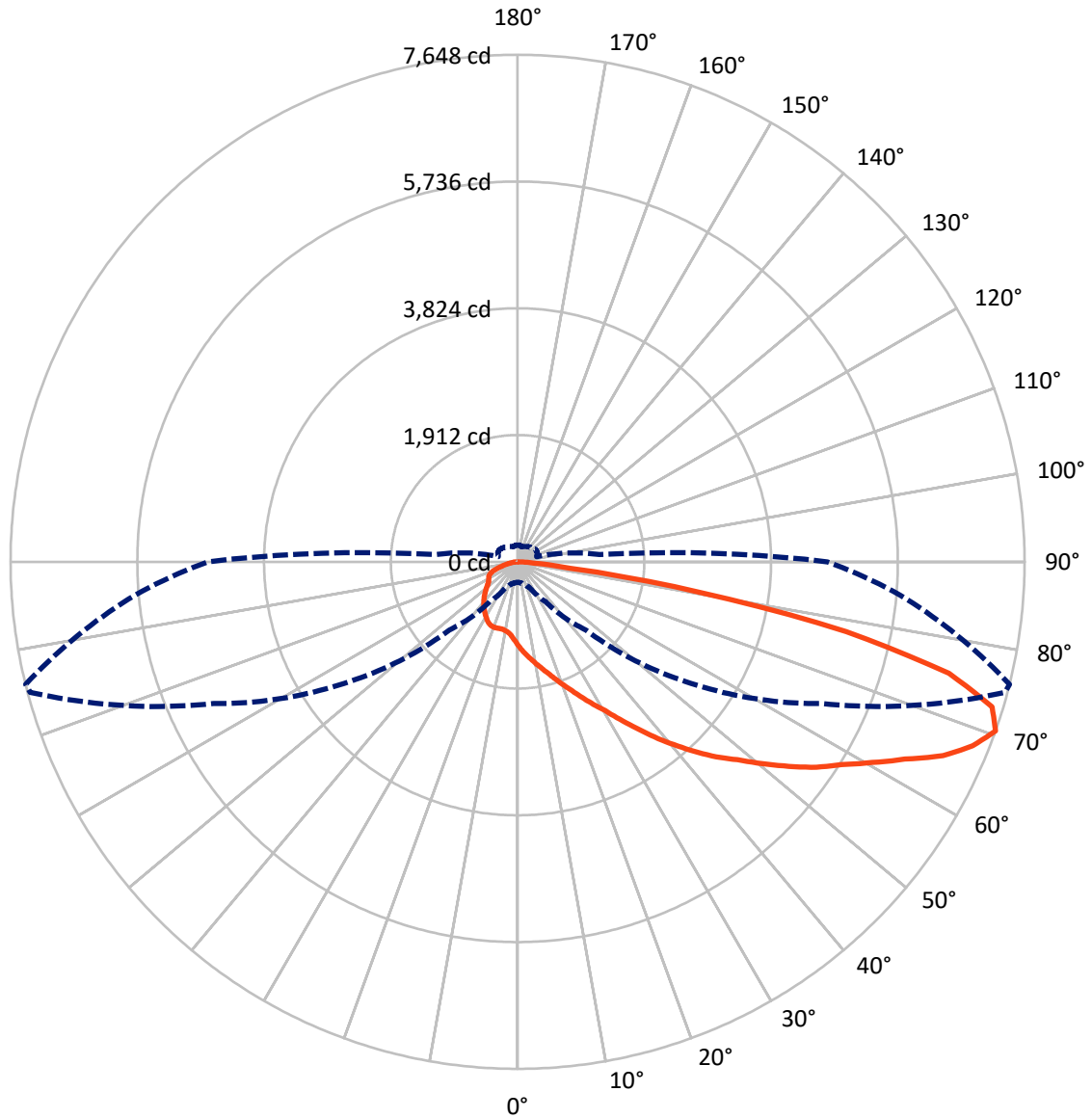
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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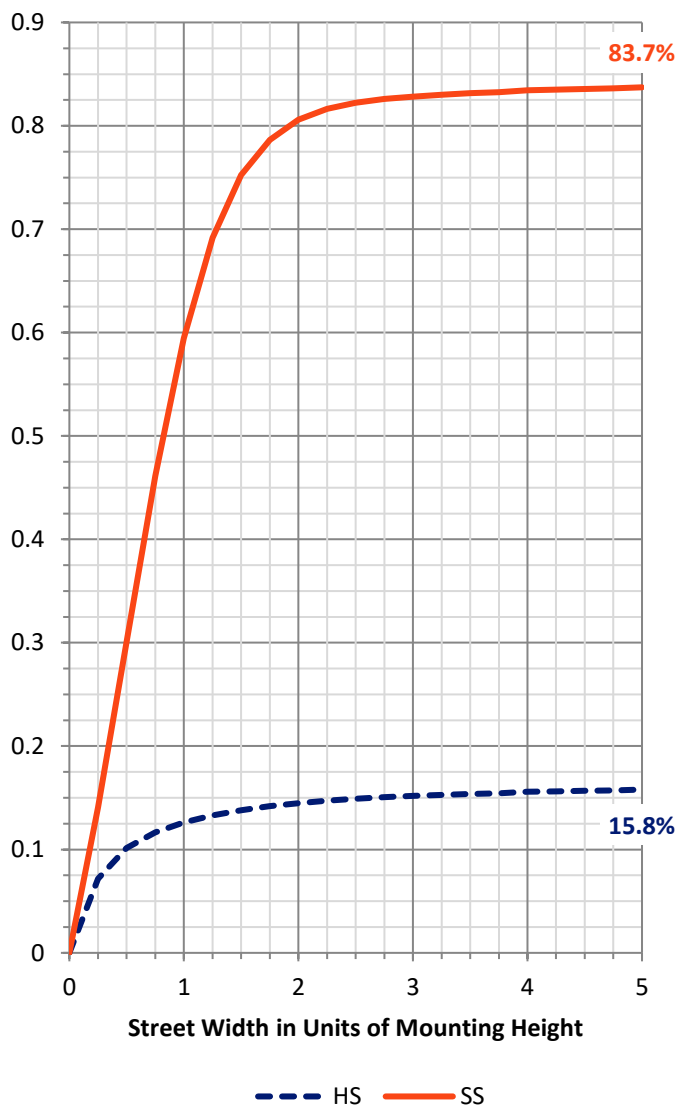
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1543.3	0.0	1543.3
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	8078.7	0.0	8078.7
	% Fixture	84.0	0.0	84.0
Total	Lumens	9622.0	0.0	9622.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	1.3
10°-20°	406.0	4.2
20°-30°	748.1	7.8
30°-40°	1253.5	13.0
40°-50°	1781.1	18.5
50°-60°	2056.4	21.4
60°-70°	1890.4	19.6
70°-80°	1192.0	12.4
80°-90°	171.4	1.8
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°	9622.0	100.0
0°-180°	9622.0	100.0

Coefficient of Utilization

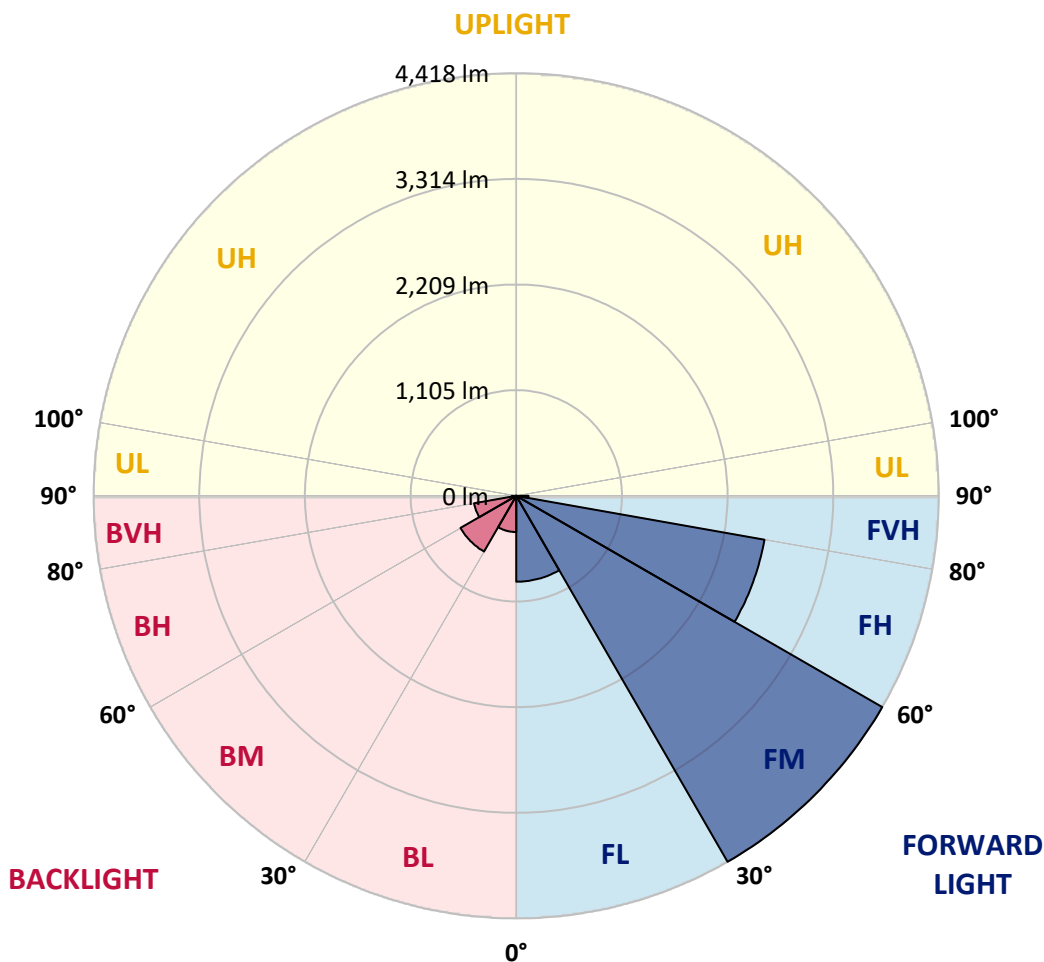


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	898.3	9.3			
FM (30°-60°)	4418.2	45.9			
FH (60°-80°)	2635.1	27.4			G2/5000
FVH (80°-90°)	127.1	1.3			G2/225
BL (0°-30°)	378.8	3.9	B1/500		
BM (30°-60°)	672.8	7.0	B1/1000		
BH (60°-80°)	447.3	4.6	B1/500		G1/500
BVH (80°-90°)	44.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1262.3	1262.3	1262.3	1262.3	1262.3	1262.3	1262.3	1262.3	1262.3	1262.3	1262.3
2.5°	1519.3	1517.0	1510.1	1498.5	1489.2	1461.4	1424.4	1392.0	1343.3	1338.7	1290.1
5°	1656.0	1646.7	1646.7	1635.2	1623.6	1593.5	1547.1	1489.2	1419.8	1415.1	1322.5
7.5°	1720.8	1723.2	1718.5	1709.3	1711.6	1686.1	1644.4	1586.5	1491.6	1486.9	1366.5
10°	1813.5	1811.2	1801.9	1795.0	1792.6	1769.5	1732.4	1679.2	1579.6	1570.3	1417.4
12.5°	1903.8	1896.9	1899.2	1896.9	1892.2	1869.1	1834.3	1781.1	1658.3	1653.7	1480.0
15°	1954.8	1952.5	1968.7	1973.3	1991.8	1971.0	1940.9	1880.7	1769.5	1751.0	1554.1
17.5°	1987.2	1984.9	2001.1	2038.1	2072.9	2072.9	2063.6	1998.8	1876.0	1862.1	1637.5
20°	2042.8	2052.0	2079.8	2109.9	2160.9	2170.2	2167.8	2140.1	1998.8	1984.9	1730.1
22.5°	2154.0	2149.3	2172.5	2218.8	2265.1	2279.0	2281.3	2281.3	2140.1	2114.6	1825.1
25°	2392.5	2380.9	2362.4	2357.8	2413.4	2411.0	2404.1	2420.3	2288.3	2269.8	1933.9
27.5°	2846.5	2821.0	2749.2	2605.6	2573.2	2584.7	2550.0	2552.3	2457.4	2434.2	2026.6
30°	3277.3	3265.7	3198.5	3024.8	2841.8	2777.0	2716.8	2691.3	2645.0	2605.6	2126.2
32.5°	3666.4	3668.7	3587.6	3397.7	3210.1	3006.3	2902.0	2848.8	2867.3	2832.6	2262.8
35°	3930.4	3909.5	3858.6	3731.2	3527.4	3332.8	3133.7	3015.5	3115.1	3075.8	2399.5
37.5°	4085.6	4069.4	4027.7	3937.3	3835.4	3647.8	3395.4	3214.7	3409.3	3351.4	2573.2
40°	4164.3	4141.1	4099.5	4062.4	4013.8	3911.9	3689.5	3441.7	3677.9	3627.0	2744.6
42.5°	4173.6	4157.4	4134.2	4115.7	4131.9	4118.0	3976.7	3705.7	3960.5	3904.9	2941.4
45°	4166.6	4178.2	4150.4	4118.0	4150.4	4268.5	4268.5	3969.8	4240.7	4199.1	3129.0
47.5°	4171.3	4159.7	4150.4	4141.1	4145.8	4307.9	4470.0	4217.6	4509.4	4460.8	3349.0
50°	3979.0	3995.2	4074.0	4108.7	4129.6	4317.2	4632.2	4486.2	4842.9	4782.7	3594.6
52.5°	3367.6	3376.8	3735.8	3995.2	4078.6	4280.1	4745.6	4785.0	5171.8	5125.5	3858.6
55°	2594.0	2642.6	2983.1	3617.7	3962.8	4217.6	4780.4	4979.6	5507.6	5470.6	4124.9
57.5°	2135.4	2142.4	2339.2	2906.7	3596.9	4159.7	4815.1	5157.9	5808.7	5767.0	4402.9
60°	1771.8	1755.6	1876.0	2242.0	2987.7	3928.1	4822.1	5299.2	6158.5	6144.6	4690.1
62.5°	1301.6	1320.2	1436.0	1746.3	2336.9	3457.9	4787.3	5419.6	6575.3	6556.8	5009.7
65°	799.0	822.2	963.5	1248.4	1769.5	2744.6	4560.4	5482.2	7013.1	7054.8	5354.8
67.5°	423.8	440.1	523.4	755.0	1213.6	2091.4	4013.8	5403.4	7383.7	7402.2	5686.0
70°	310.4	312.7	340.5	426.2	731.9	1454.5	3196.2	5060.6	7610.6	7647.7	5794.8
72.5°	271.0	273.3	284.9	305.7	398.4	887.1	2290.6	4463.1	7515.7	7483.3	5611.9
75°	245.5	245.5	254.8	261.7	291.8	491.0	1403.5	3652.5	6790.7	6718.9	4785.0
77.5°	210.8	210.8	220.0	229.3	252.5	317.3	734.2	2707.5	5192.6	5069.9	3272.6
80°	169.1	169.1	180.7	192.2	222.3	238.6	359.0	1811.2	2969.2	2788.6	1489.2
82.5°	115.8	125.1	145.9	159.8	185.3	169.1	210.8	782.8	935.7	810.6	335.8
85°	69.5	74.1	104.2	120.4	139.0	90.3	129.7	301.1	280.2	245.5	76.4
87.5°	6.9	11.6	41.7	48.6	48.6	25.5	55.6	71.8	81.1	83.4	18.5
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°	1262.3	1262.3	1262.3	1262.3	1262.3	1262.3	1262.3	1262.3	1262.3	1262.3	1262.3
2.5°	1262.3	1234.5	1181.2	1132.6	1083.9	1051.5	1019.1	1007.5	991.3	979.7	989.0
5°	1273.8	1215.9	1114.0	1028.3	970.4	926.4	905.6	894.0	884.7	882.4	880.1
7.5°	1287.7	1202.0	1065.4	970.4	914.9	894.0	889.4	889.4	889.4	889.4	891.7
10°	1317.8	1206.7	1039.9	938.0	907.9	903.3	905.6	914.9	914.9	917.2	917.2
12.5°	1352.6	1218.3	1021.4	933.4	914.9	917.2	919.5	924.1	924.1	931.1	928.7
15°	1403.5	1241.4	1019.1	938.0	921.8	917.2	917.2	914.9	914.9	914.9	919.5
17.5°	1468.4	1273.8	1021.4	938.0	914.9	905.6	898.6	891.7	882.4	887.1	882.4
20°	1533.2	1313.2	1021.4	926.4	896.3	873.2	852.3	840.7	829.2	826.8	829.2
22.5°	1614.3	1359.5	1009.8	901.0	856.9	824.5	794.4	778.2	759.7	752.7	748.1
25°	1683.8	1396.6	986.6	863.9	812.9	766.6	727.2	699.5	676.3	671.7	671.7
27.5°	1755.6	1429.0	951.9	817.6	750.4	699.5	655.5	620.7	597.5	595.2	592.9
30°	1822.8	1456.8	905.6	766.6	694.8	634.6	583.7	553.5	532.7	521.1	514.2
32.5°	1910.8	1493.9	861.6	715.7	630.0	569.8	523.4	498.0	470.2	451.6	444.7
35°	2021.9	1537.9	812.9	660.1	572.1	511.9	484.1	447.0	412.3	391.4	384.5
37.5°	2147.0	1600.4	762.0	602.2	514.2	470.2	454.0	396.0	359.0	352.0	349.7
40°	2302.2	1660.6	704.1	542.0	458.6	447.0	419.2	359.0	340.5	338.1	335.8
42.5°	2457.4	1725.5	648.5	481.7	414.6	419.2	379.8	349.7	333.5	328.9	326.6
45°	2638.0	1790.3	592.9	428.5	379.8	379.8	359.0	340.5	326.6	321.9	321.9
47.5°	2827.9	1855.2	532.7	382.2	354.4	340.5	342.8	328.9	319.6	315.0	312.7
50°	3066.5	1917.7	477.1	349.7	338.1	319.6	326.6	317.3	312.7	308.0	305.7
52.5°	3291.1	1945.5	426.2	331.2	328.9	310.4	312.7	308.0	305.7	298.8	296.5
55°	3511.2	1938.6	386.8	321.9	317.3	308.0	303.4	301.1	298.8	291.8	289.5
57.5°	3756.7	1929.3	361.3	319.6	310.4	301.1	301.1	294.1	284.9	284.9	284.9
60°	4011.4	1899.2	349.7	319.6	308.0	301.1	296.5	289.5	280.2	282.6	280.2
62.5°	4298.6	1841.3	342.8	326.6	310.4	298.8	294.1	284.9	273.3	275.6	273.3
65°	4551.1	1723.2	338.1	333.5	315.0	301.1	289.5	277.9	264.0	266.3	264.0
67.5°	4722.5	1524.0	324.3	338.1	321.9	298.8	284.9	268.7	250.1	259.4	257.1
70°	4673.8	1239.1	298.8	328.9	328.9	301.1	277.9	257.1	236.2	254.8	247.8
72.5°	4296.3	931.1	250.1	296.5	324.3	301.1	264.0	238.6	220.0	231.6	217.7
75°	3527.4	632.3	199.2	236.2	303.4	303.4	252.5	220.0	196.9	189.9	185.3
77.5°	2200.3	393.7	155.2	173.7	254.8	301.1	240.9	196.9	164.4	159.8	155.2
80°	870.8	210.8	122.8	125.1	187.6	275.6	224.7	166.8	132.0	127.4	118.1
82.5°	199.2	106.5	85.7	83.4	115.8	224.7	203.8	132.0	101.9	101.9	85.7
85°	60.2	55.6	55.6	53.3	57.9	115.8	157.5	90.3	69.5	48.6	41.7
87.5°	16.2	23.2	20.8	18.5	18.5	16.2	51.0	23.2	13.9	6.9	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

(END OF REPORT)