

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: P595175

Luminaire Tested: **IST-PA1C-830-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1C-830-U-T2U
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5314 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

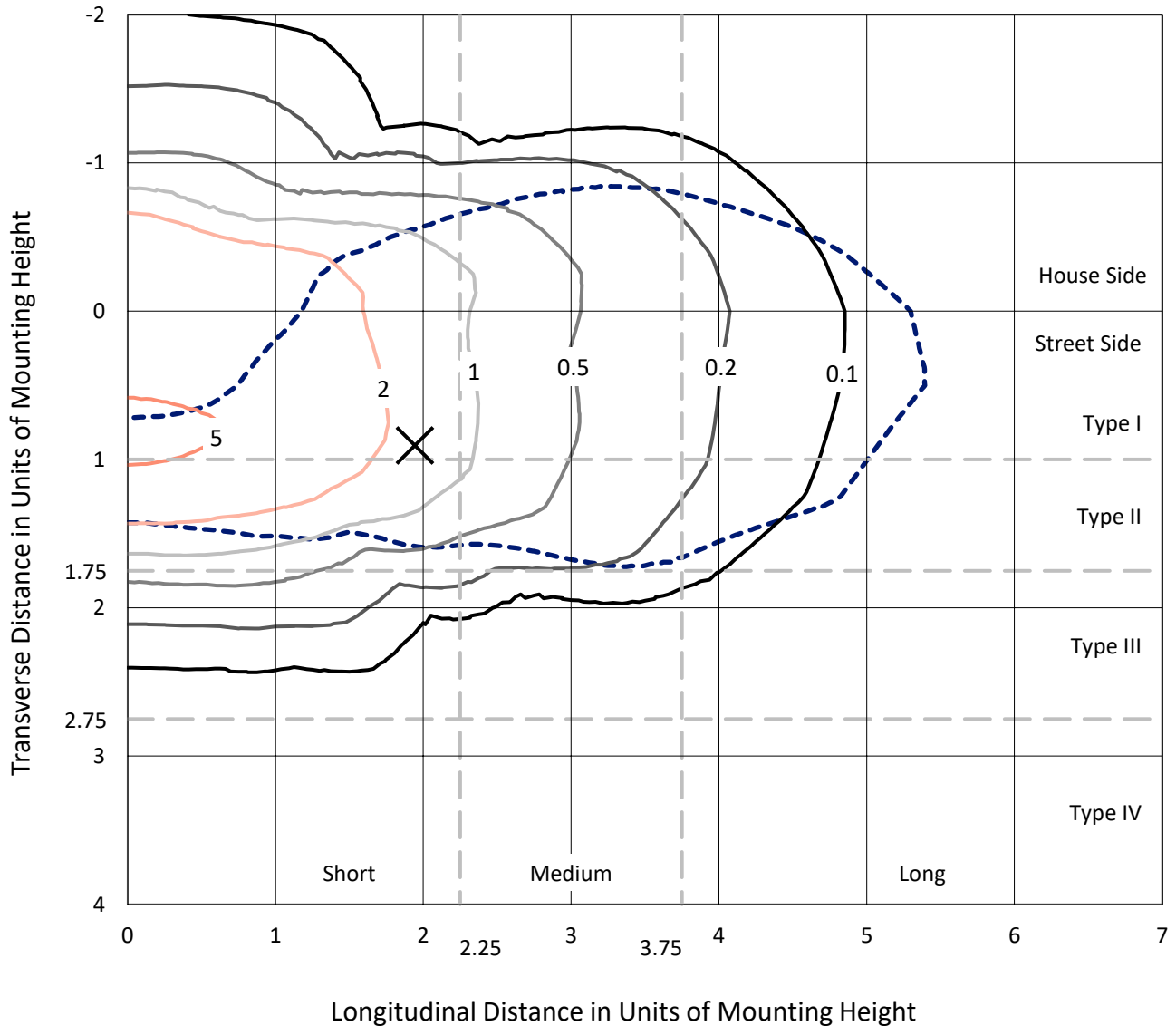
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

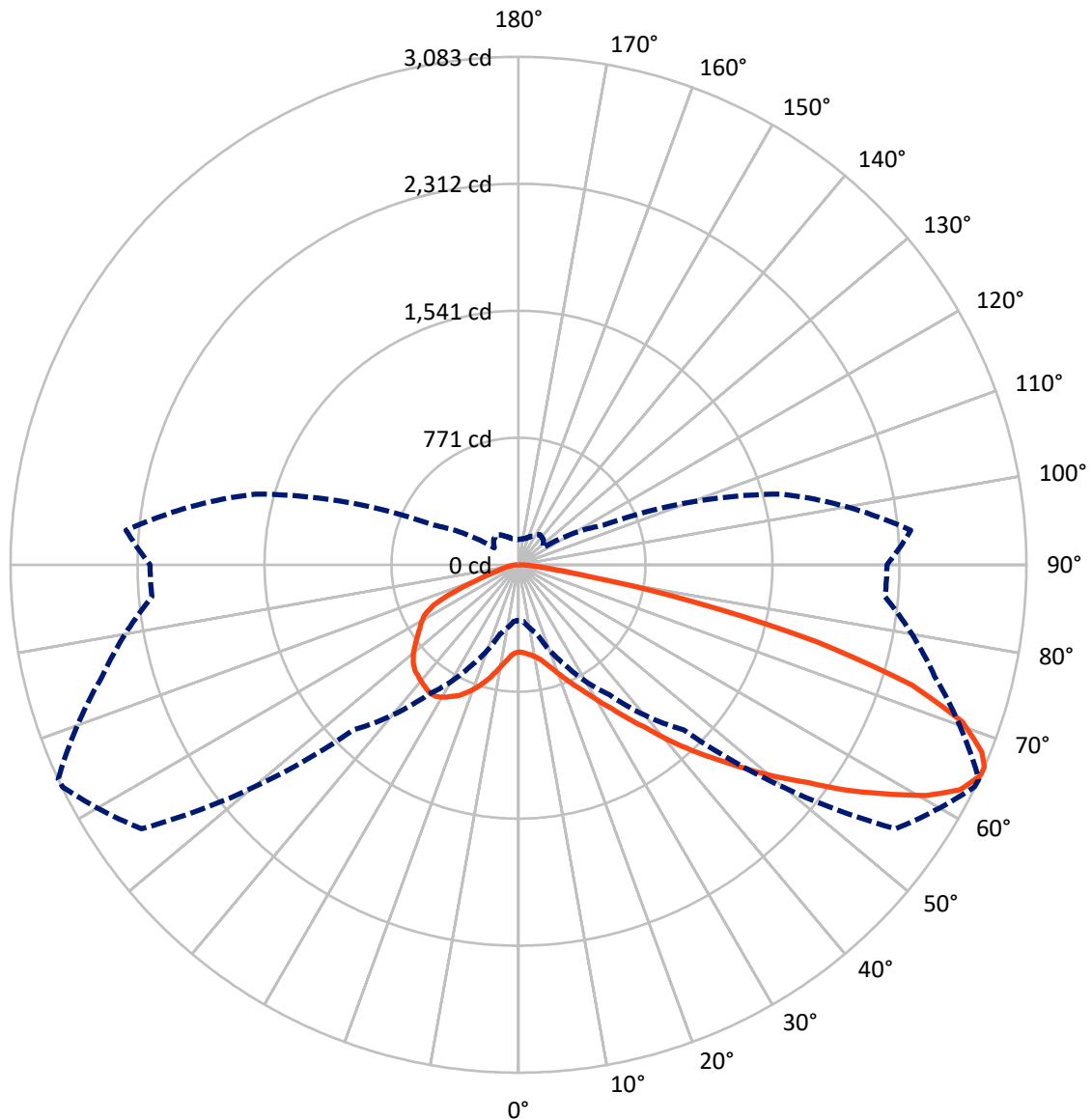
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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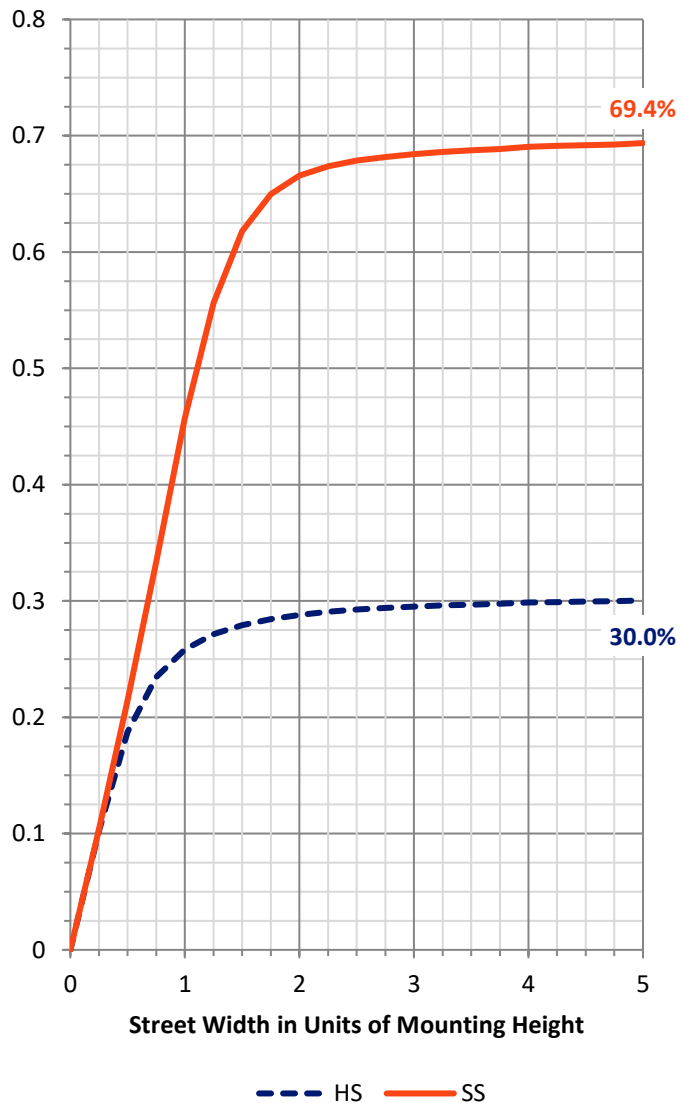
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1613.5	0.0	1613.5
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	3700.5	0.0	3700.5
	% Fixture	69.6	0.0	69.6
Total	Lumens	5314.0	0.0	5314.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	1.0
10°-20°	188.3	3.5
20°-30°	368.8	6.9
30°-40°	602.7	11.3
40°-50°	956.6	18.0
50°-60°	1230.4	23.2
60°-70°	1109.6	20.9
70°-80°	688.2	13.0
80°-90°	115.3	2.2
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°	5314.0	100.0
0°-180°	5314.0	100.0

Coefficient of Utilization



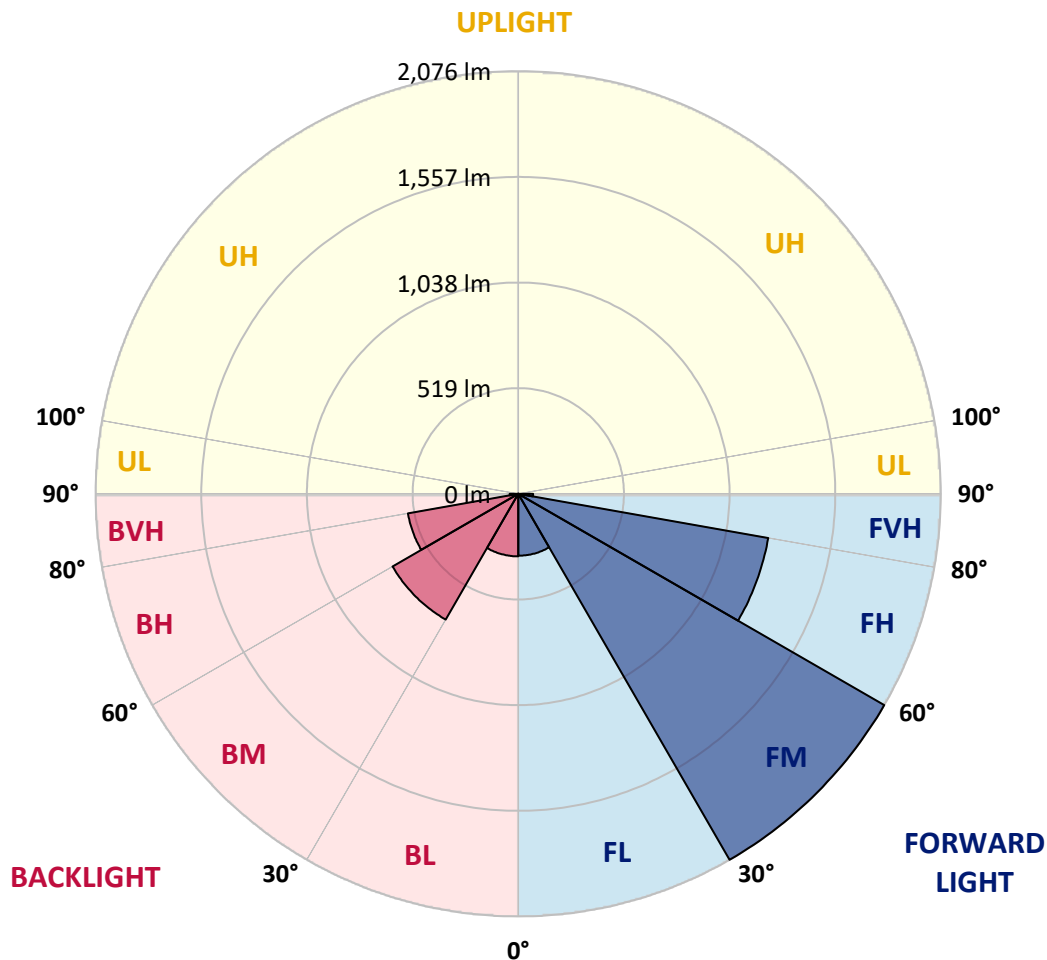
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 CATALOG NUMBER: IST-PA1C-830-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	303.9	5.7			
FM (30°-60°)	2076.4	39.1			
FH (60°-80°)	1247.2	23.5			G1/1800
FVH (80°-90°)	72.9	1.4			G1/100
BL (0°-30°)	307.3	5.8	B1/500		
BM (30°-60°)	713.3	13.4	B1/1000		
BH (60°-80°)	550.6	10.4	B2/1000		G2/1000
BVH (80°-90°)	42.4	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7
2.5°	531.0	532.3	533.5	531.0	533.5	534.8	532.3	532.3	533.5	531.0	531.0
5°	527.1	528.4	531.0	532.3	537.4	540.0	541.3	541.3	542.6	541.3	542.6
7.5°	516.8	516.8	521.9	524.5	532.3	541.3	546.4	554.2	554.2	555.5	559.3
10°	527.1	527.1	531.0	534.8	541.3	549.0	556.7	565.8	568.3	577.4	582.5
12.5°	542.6	545.1	550.3	555.5	563.2	572.2	578.7	587.7	589.0	598.0	608.3
15°	568.3	570.9	573.5	579.9	590.3	601.8	613.4	619.9	622.5	627.6	635.4
17.5°	607.0	609.6	610.9	614.7	622.5	637.9	654.7	659.8	662.4	662.4	668.9
20°	672.7	671.4	668.9	661.1	661.1	675.3	698.5	707.5	710.1	705.0	701.1
22.5°	748.8	747.5	737.2	728.1	721.7	724.3	747.5	762.9	761.7	751.3	735.9
25°	848.0	850.6	833.8	810.6	791.3	786.1	800.3	815.8	818.4	799.0	773.3
27.5°	966.6	962.7	953.7	916.3	878.9	855.7	863.5	880.2	881.5	860.9	819.6
30°	1105.8	1099.3	1076.1	1037.4	979.5	947.2	940.8	955.0	958.8	924.0	864.8
32.5°	1260.4	1254.0	1224.3	1165.0	1101.9	1047.8	1027.1	1046.5	1043.9	1003.9	921.5
35°	1447.3	1446.0	1391.9	1318.4	1238.5	1166.3	1138.0	1138.0	1145.7	1086.4	993.6
37.5°	1697.3	1707.6	1627.7	1513.0	1400.9	1304.2	1256.5	1254.0	1255.2	1190.8	1074.8
40°	1922.8	1919.0	1872.6	1765.6	1601.9	1478.2	1407.3	1391.9	1395.7	1313.2	1180.5
42.5°	2053.0	2056.9	2045.3	1998.9	1855.8	1699.9	1578.7	1537.5	1538.8	1435.7	1281.0
45°	2134.2	2138.0	2136.8	2160.0	2103.3	1956.3	1783.6	1688.3	1683.1	1574.9	1399.6
47.5°	2180.6	2183.2	2199.9	2247.6	2294.0	2260.5	2010.5	1855.8	1845.5	1705.0	1518.2
50°	2129.0	2130.3	2197.3	2310.7	2424.2	2526.0	2242.4	2022.1	2019.5	1849.4	1634.1
52.5°	1858.4	1881.6	2029.8	2266.9	2520.8	2714.1	2510.5	2218.0	2196.0	1986.0	1750.1
55°	1516.9	1527.2	1697.3	1998.9	2502.8	2830.1	2712.8	2429.3	2413.8	2138.0	1863.5
57.5°	1184.4	1194.7	1397.0	1648.3	2227.0	2823.7	2855.9	2657.4	2622.6	2270.8	1977.0
60°	764.2	796.5	1031.0	1340.3	1803.0	2627.8	2928.1	2876.5	2844.3	2402.2	2073.6
62.5°	519.4	524.5	671.4	993.6	1349.3	2135.5	2922.9	3011.8	3006.7	2533.7	2170.3
65°	337.7	345.4	434.3	672.7	965.3	1417.6	2794.0	3077.6	3082.7	2614.9	2233.4
66°	286.1	291.3	359.6	565.8	845.4	1123.8	2680.6	3072.4	3082.7	2652.3	2252.7
67.5°	248.7	252.6	287.4	417.6	690.8	808.1	2385.5	3004.1	3033.7	2687.1	2277.2
70°	213.9	219.1	251.3	284.8	493.6	471.7	1510.4	2828.8	2858.5	2703.8	2292.7
72.5°	176.6	180.4	212.6	257.8	358.3	317.0	666.3	2421.6	2496.3	2642.0	2268.2
75°	139.2	141.8	171.4	215.2	274.5	247.4	290.0	1775.9	1870.0	2328.8	2172.8
77.5°	108.3	109.5	132.7	167.5	251.3	192.0	179.1	864.8	1094.2	1799.1	1913.8
80°	74.7	77.3	97.9	126.3	184.3	152.1	119.9	337.7	429.2	1194.7	1451.1
82.5°	49.0	50.3	67.0	95.4	122.4	145.6	78.6	163.7	180.4	550.3	628.9
85°	33.5	33.5	47.7	59.3	83.8	96.7	51.6	86.3	94.1	208.8	76.0
87.5°	16.8	16.8	23.2	30.9	40.0	37.4	30.9	30.9	30.9	68.3	21.9
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°	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7	529.7
2.5°	532.3	532.3	533.5	534.8	536.1	536.1	537.4	537.4	536.1	537.4	538.7
5°	543.9	545.1	547.7	551.6	558.0	564.5	570.9	574.8	578.7	579.9	577.4
7.5°	561.9	564.5	573.5	583.8	594.1	609.6	618.6	623.8	626.3	628.9	626.3
10°	585.1	590.3	603.1	621.2	639.2	658.6	668.9	676.6	677.9	680.5	677.9
12.5°	612.2	621.2	640.5	666.3	688.2	707.5	715.3	710.1	698.5	693.4	692.1
15°	644.4	653.4	680.5	712.7	738.5	747.5	735.9	719.1	706.2	705.0	703.7
17.5°	672.7	685.6	723.0	756.5	781.0	772.0	741.0	730.7	726.9	732.0	730.7
20°	708.8	719.1	756.5	797.7	810.6	775.8	753.9	747.5	743.6	743.6	741.0
22.5°	738.5	746.2	791.3	836.4	828.7	778.4	762.9	750.1	737.2	735.9	732.0
25°	773.3	775.8	823.5	872.5	831.2	781.0	753.9	732.0	719.1	715.3	716.5
27.5°	805.5	811.9	853.2	897.0	824.8	766.8	723.0	694.6	675.3	674.0	674.0
30°	846.7	846.7	884.1	924.0	810.6	730.7	672.7	631.5	616.0	614.7	612.2
32.5°	893.1	885.4	921.5	943.4	779.7	681.8	604.4	558.0	533.5	528.4	524.5
35°	957.5	940.8	966.6	947.2	748.8	612.2	518.1	465.2	447.2	439.5	439.5
37.5°	1032.3	1007.8	1034.9	935.6	701.1	531.0	427.9	387.9	368.6	357.0	360.9
40°	1119.9	1089.0	1104.5	922.8	649.5	440.8	353.1	328.6	305.4	290.0	290.0
42.5°	1223.0	1171.5	1183.1	909.9	576.1	362.1	305.4	288.7	270.6	255.2	259.0
45°	1322.3	1272.0	1260.4	897.0	498.7	309.3	286.1	274.5	257.8	239.7	239.7
47.5°	1437.0	1372.5	1328.7	873.8	422.7	292.5	291.3	274.5	242.3	216.5	213.9
50°	1545.2	1485.9	1390.6	839.0	380.2	306.7	290.0	250.0	219.1	202.3	201.0
52.5°	1659.9	1598.1	1440.8	796.5	358.3	300.3	266.8	229.4	206.2	189.4	185.6
55°	1773.3	1741.1	1485.9	755.2	323.5	279.7	247.4	216.5	192.0	176.6	174.0
57.5°	1902.2	1889.3	1524.6	714.0	269.4	253.9	233.3	207.5	184.3	172.7	171.4
60°	2014.3	2059.4	1571.0	683.0	229.4	234.6	226.8	206.2	189.4	176.6	176.6
62.5°	2132.9	2223.1	1612.2	643.1	199.8	223.0	228.1	204.9	183.0	171.4	171.4
65°	2236.0	2390.6	1654.8	569.6	179.1	213.9	224.2	190.7	165.0	155.9	153.4
66°	2279.8	2438.3	1667.7	524.5	171.4	207.5	217.8	183.0	157.2	149.5	148.2
67.5°	2331.4	2513.1	1683.1	427.9	159.8	193.3	203.6	171.4	144.3	139.2	136.6
70°	2403.5	2528.5	1674.1	279.7	139.2	166.2	181.7	153.4	128.9	125.0	121.1
72.5°	2411.3	2422.9	1583.9	176.6	121.1	143.1	159.8	137.9	113.4	109.5	107.0
75°	2283.7	2147.1	1340.3	126.3	107.0	126.3	140.5	119.9	94.1	88.9	86.3
77.5°	1949.9	1703.7	964.0	94.1	92.8	108.3	117.3	104.4	78.6	74.7	73.5
80°	1368.7	1156.0	483.3	70.9	73.5	90.2	97.9	87.6	65.7	60.6	58.0
82.5°	554.2	491.0	166.2	52.8	55.4	68.3	83.8	72.2	50.3	43.8	38.7
85°	63.1	107.0	72.2	36.1	37.4	46.4	56.7	43.8	29.6	24.5	20.6
87.5°	12.9	23.2	25.8	14.2	12.9	18.0	25.8	15.5	10.3	3.9	5.2
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)