

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: P595121

Luminaire Tested: **IST-PA1C-730-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595121
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-730-U-T2U
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 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: 6091 lumens
Efficiency: N/A
Efficacy: 126.1 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

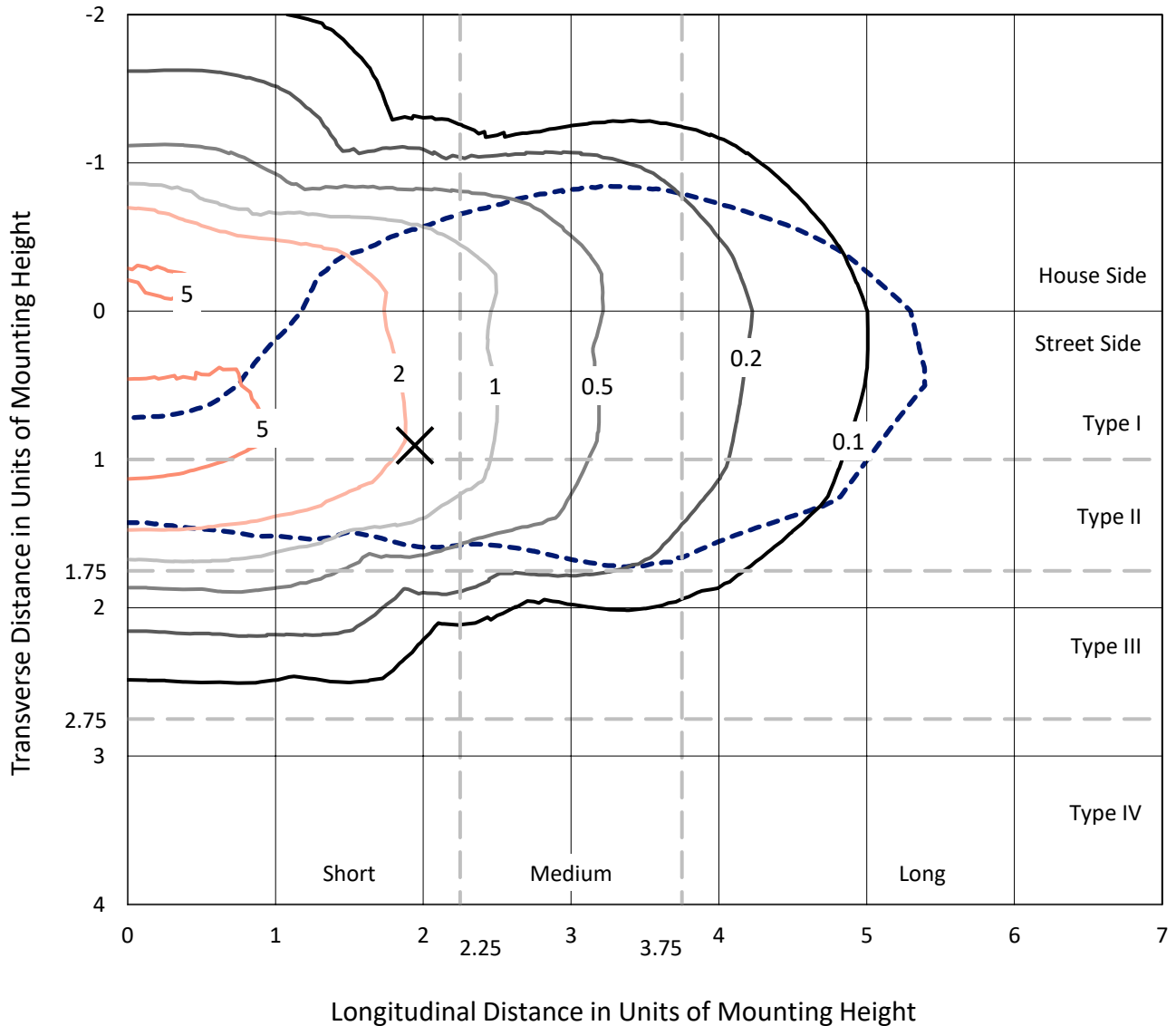
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

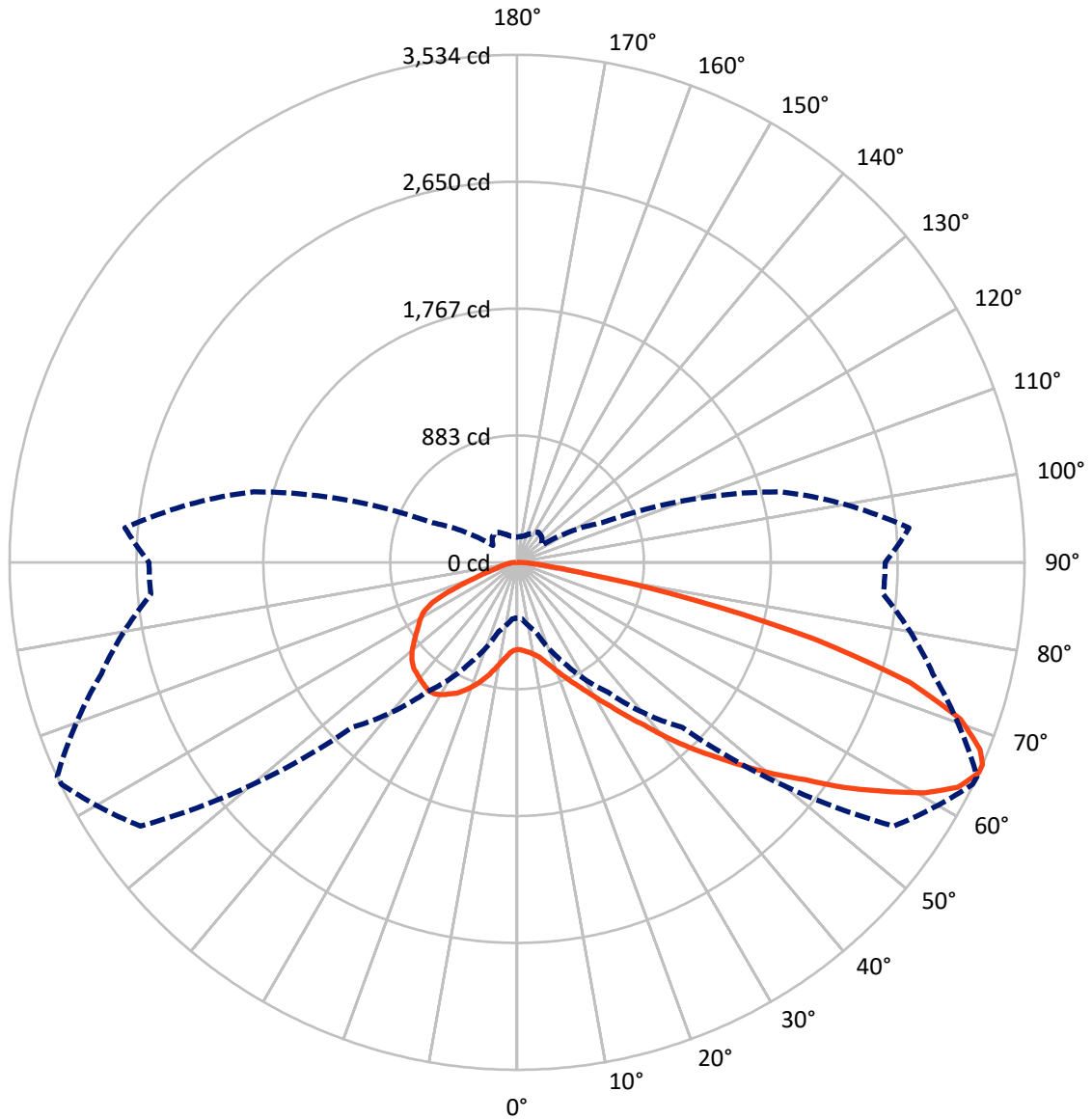
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.7 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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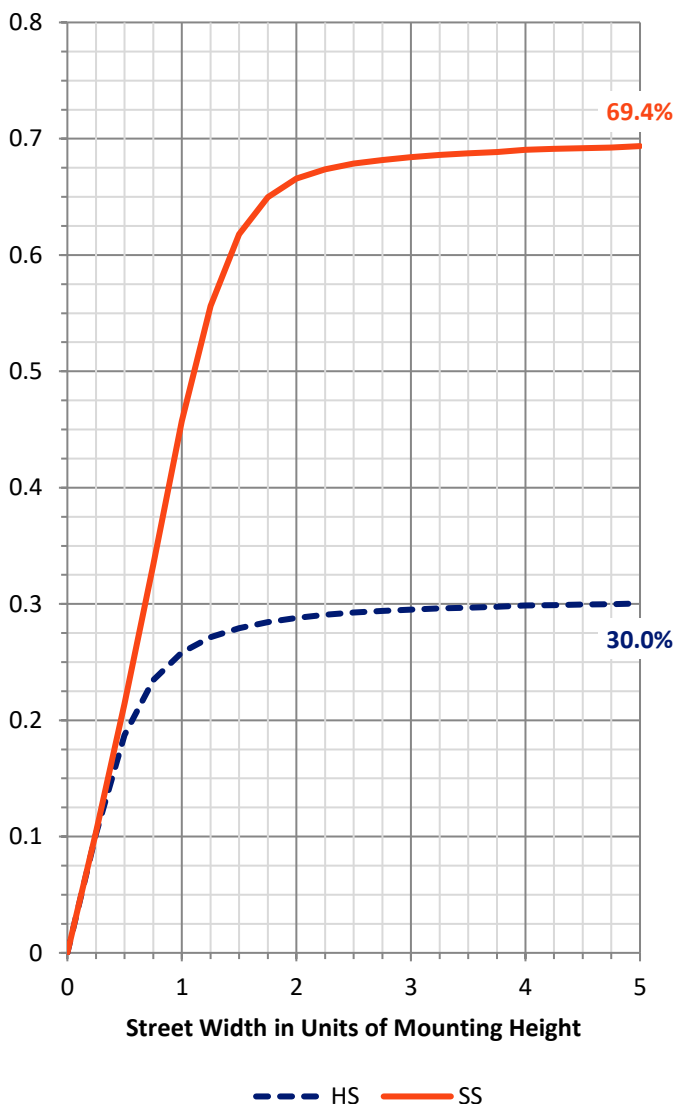
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1849.5	0.0	1849.5
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	4241.5	0.0	4241.5
	% Fixture	69.6	0.0	69.6
Total	Lumens	6091.0	0.0	6091.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.9	1.0
10°-20°	215.9	3.5
20°-30°	422.8	6.9
30°-40°	690.8	11.3
40°-50°	1096.5	18.0
50°-60°	1410.3	23.2
60°-70°	1271.8	20.9
70°-80°	788.8	13.0
80°-90°	132.2	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°	6091.0	100.0
0°-180°	6091.0	100.0

Coefficient of Utilization

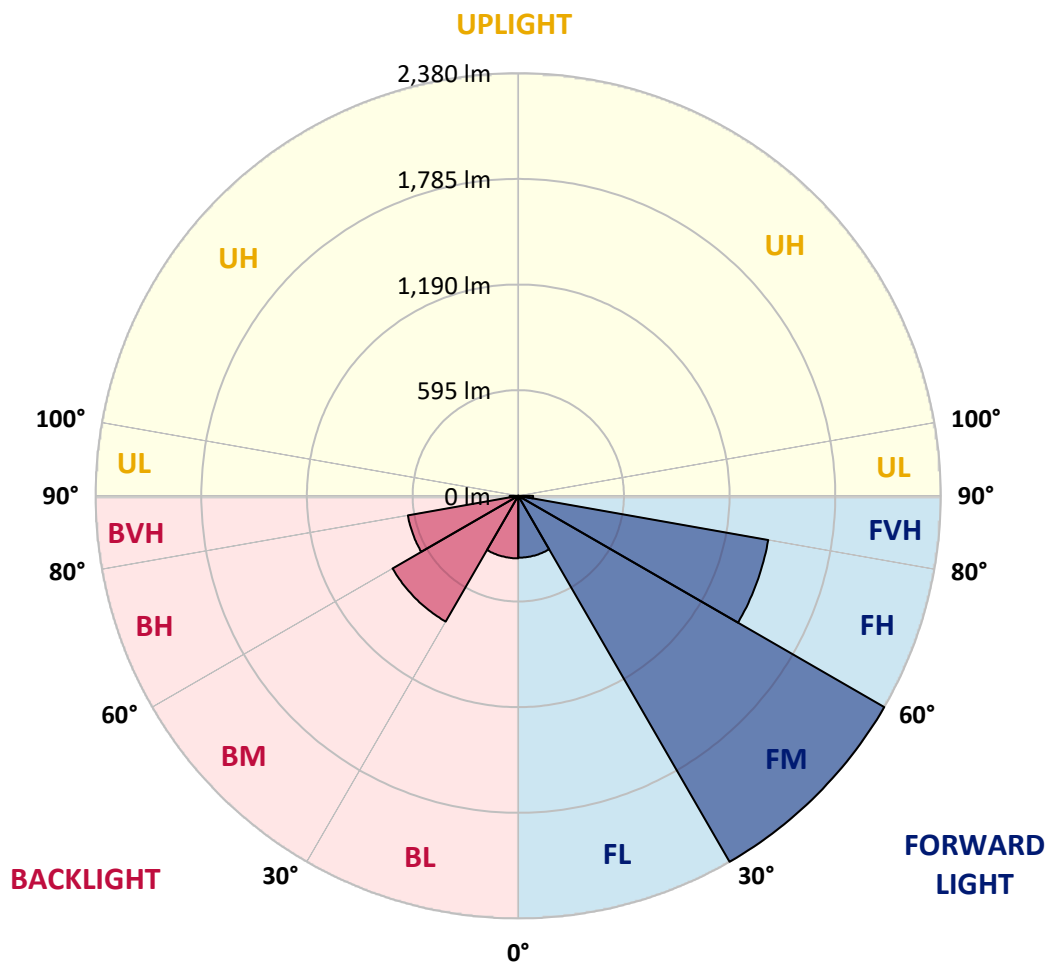


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	348.3	5.7			
FM (30°-60°)	2380.0	39.1			
FH (60°-80°)	1429.6	23.5			G1/1800
FVH (80°-90°)	83.6	1.4			G1/100
BL (0°-30°)	352.3	5.8	B1/500		
BM (30°-60°)	817.6	13.4	B1/1000		
BH (60°-80°)	631.1	10.4	B2/1000		G2/1000
BVH (80°-90°)	48.6	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°	607.1	607.1	607.1	607.1	607.1	607.1	607.1	607.1	607.1	607.1	607.1
2.5°	608.6	610.1	611.6	608.6	611.6	613.0	610.1	610.1	611.6	608.6	608.6
5°	604.2	605.7	608.6	610.1	616.0	618.9	620.4	620.4	621.9	620.4	621.9
7.5°	592.4	592.4	598.3	601.2	610.1	620.4	626.3	635.2	635.2	636.7	641.1
10°	604.2	604.2	608.6	613.0	620.4	629.3	638.1	648.5	651.4	661.8	667.7
12.5°	621.9	624.9	630.8	636.7	645.5	655.9	663.3	673.6	675.1	685.4	697.2
15°	651.4	654.4	657.4	664.7	676.6	689.9	703.1	710.5	713.5	719.4	728.3
17.5°	695.8	698.7	700.2	704.6	713.5	731.2	750.4	756.3	759.3	759.3	766.7
20°	771.1	769.6	766.7	757.8	757.8	774.1	800.6	811.0	813.9	808.0	803.6
22.5°	858.3	856.8	845.0	834.6	827.2	830.2	856.8	874.5	873.0	861.2	843.5
25°	972.0	974.9	955.7	929.2	907.0	901.1	917.3	935.1	938.0	915.9	886.3
27.5°	1107.9	1103.5	1093.1	1050.3	1007.4	980.9	989.7	1008.9	1010.4	986.8	939.5
30°	1267.4	1260.0	1233.5	1189.1	1122.7	1085.7	1078.4	1094.6	1099.0	1059.1	991.2
32.5°	1444.7	1437.3	1403.3	1335.4	1263.0	1201.0	1177.3	1199.5	1196.5	1150.7	1056.2
35°	1658.9	1657.4	1595.4	1511.2	1419.6	1336.9	1304.4	1304.4	1313.2	1245.3	1138.9
37.5°	1945.5	1957.3	1865.7	1734.2	1605.7	1494.9	1440.3	1437.3	1438.8	1364.9	1232.0
40°	2204.0	2199.5	2146.4	2023.8	1836.2	1694.3	1613.1	1595.4	1599.8	1505.3	1353.1
42.5°	2353.2	2357.6	2344.3	2291.1	2127.2	1948.4	1809.6	1762.3	1763.8	1645.6	1468.3
45°	2446.2	2450.7	2449.2	2475.8	2410.8	2242.4	2044.4	1935.1	1929.2	1805.1	1604.2
47.5°	2499.4	2502.4	2521.6	2576.2	2629.4	2591.0	2304.4	2127.2	2115.3	1954.3	1740.1
50°	2440.3	2441.8	2518.6	2648.6	2778.6	2895.3	2570.3	2317.7	2314.8	2119.8	1873.1
52.5°	2130.1	2156.7	2326.6	2598.4	2889.4	3111.0	2877.6	2542.3	2517.1	2276.4	2006.0
55°	1738.7	1750.5	1945.5	2291.1	2868.7	3243.9	3109.5	2784.5	2766.8	2450.7	2136.0
57.5°	1357.5	1369.4	1601.3	1889.3	2552.6	3236.5	3273.5	3046.0	3006.1	2602.8	2266.0
60°	876.0	912.9	1181.8	1536.3	2066.6	3012.0	3356.2	3297.1	3260.2	2753.5	2376.8
62.5°	595.3	601.2	769.6	1138.9	1546.6	2447.7	3350.3	3452.2	3446.3	2904.2	2487.6
65°	387.0	395.9	497.8	771.1	1106.4	1624.9	3202.6	3527.5	3533.5	2997.2	2560.0
66°	327.9	333.8	412.1	648.5	969.0	1288.1	3072.6	3521.6	3533.5	3040.1	2582.1
67.5°	285.1	289.5	329.4	478.6	791.8	926.2	2734.3	3443.3	3477.3	3080.0	2610.2
70°	245.2	251.1	288.1	326.5	565.8	540.7	1731.3	3242.4	3276.4	3099.2	2627.9
72.5°	202.4	206.8	243.7	295.4	410.7	363.4	763.7	2775.7	2861.3	3028.3	2599.9
75°	159.5	162.5	196.5	246.7	314.6	283.6	332.4	2035.6	2143.4	2669.3	2490.6
77.5°	124.1	125.6	152.2	192.0	288.1	220.1	205.3	991.2	1254.1	2062.2	2193.6
80°	85.7	88.6	112.3	144.8	211.2	174.3	137.4	387.0	491.9	1369.4	1663.3
82.5°	56.1	57.6	76.8	109.3	140.3	166.9	90.1	187.6	206.8	630.8	720.9
85°	38.4	38.4	54.7	68.0	96.0	110.8	59.1	99.0	107.8	239.3	87.2
87.5°	19.2	19.2	26.6	35.5	45.8	42.8	35.5	35.5	35.5	78.3	25.1
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°	607.1	607.1	607.1	607.1	607.1	607.1	607.1	607.1	607.1	607.1	607.1
2.5°	610.1	610.1	611.6	613.0	614.5	614.5	616.0	616.0	614.5	616.0	617.5
5°	623.4	624.9	627.8	632.2	639.6	647.0	654.4	658.8	663.3	664.7	661.8
7.5°	644.1	647.0	657.4	669.2	681.0	698.7	709.1	715.0	717.9	720.9	717.9
10°	670.6	676.6	691.3	712.0	732.7	754.8	766.7	775.5	777.0	780.0	777.0
12.5°	701.7	712.0	734.2	763.7	788.8	811.0	819.8	813.9	800.6	794.7	793.3
15°	738.6	748.9	780.0	816.9	846.4	856.8	843.5	824.3	809.5	808.0	806.5
17.5°	771.1	785.9	828.7	867.1	895.2	884.8	849.4	837.6	833.1	839.0	837.6
20°	812.5	824.3	867.1	914.4	929.2	889.3	864.2	856.8	852.3	852.3	849.4
22.5°	846.4	855.3	907.0	958.7	949.8	892.2	874.5	859.7	845.0	843.5	839.0
25°	886.3	889.3	943.9	1000.1	952.8	895.2	864.2	839.0	824.3	819.8	821.3
27.5°	923.2	930.6	977.9	1028.1	945.4	878.9	828.7	796.2	774.1	772.6	772.6
30°	970.5	970.5	1013.4	1059.1	929.2	837.6	771.1	723.8	706.1	704.6	701.7
32.5°	1023.7	1014.8	1056.2	1081.3	893.7	781.4	692.8	639.6	611.6	605.7	601.2
35°	1097.6	1078.4	1107.9	1085.7	858.3	701.7	593.8	533.3	512.6	503.7	503.7
37.5°	1183.2	1155.2	1186.2	1072.4	803.6	608.6	490.4	444.6	422.5	409.2	413.6
40°	1283.7	1248.2	1266.0	1057.7	744.5	505.2	404.8	376.7	350.1	332.4	332.4
42.5°	1401.9	1342.8	1356.1	1042.9	660.3	415.1	350.1	330.9	310.2	292.5	296.9
45°	1515.6	1458.0	1444.7	1028.1	571.7	354.5	327.9	314.6	295.4	274.8	274.8
47.5°	1647.1	1573.2	1523.0	1001.5	484.5	335.3	333.8	314.6	277.7	248.2	245.2
50°	1771.2	1703.2	1593.9	961.7	435.8	351.6	332.4	286.6	251.1	231.9	230.4
52.5°	1902.6	1831.7	1651.5	912.9	410.7	344.2	305.8	262.9	236.4	217.1	212.7
55°	2032.6	1995.7	1703.2	865.6	370.8	320.6	283.6	248.2	220.1	202.4	199.4
57.5°	2180.3	2165.6	1747.5	818.4	308.7	291.0	267.4	237.8	211.2	197.9	196.5
60°	2308.9	2360.6	1800.7	782.9	262.9	268.8	260.0	236.4	217.1	202.4	202.4
62.5°	2444.8	2548.2	1848.0	737.1	229.0	255.6	261.5	234.9	209.8	196.5	196.5
65°	2562.9	2740.2	1896.7	652.9	205.3	245.2	257.0	218.6	189.1	178.7	175.8
66°	2613.2	2794.9	1911.5	601.2	196.5	237.8	249.6	209.8	180.2	171.4	169.9
67.5°	2672.2	2880.5	1929.2	490.4	183.2	221.6	233.4	196.5	165.4	159.5	156.6
70°	2755.0	2898.3	1918.9	320.6	159.5	190.6	208.3	175.8	147.7	143.3	138.9
72.5°	2763.8	2777.1	1815.5	202.4	138.9	164.0	183.2	158.1	130.0	125.6	122.6
75°	2617.6	2461.0	1536.3	144.8	122.6	144.8	161.0	137.4	107.8	101.9	99.0
77.5°	2235.0	1952.9	1104.9	107.8	106.4	124.1	134.4	119.7	90.1	85.7	84.2
80°	1568.8	1325.0	553.9	81.2	84.2	103.4	112.3	100.4	75.3	69.4	66.5
82.5°	635.2	562.8	190.6	60.6	63.5	78.3	96.0	82.7	57.6	50.2	44.3
85°	72.4	122.6	82.7	41.4	42.8	53.2	65.0	50.2	34.0	28.1	23.6
87.5°	14.8	26.6	29.5	16.2	14.8	20.7	29.5	17.7	11.8	4.4	5.9
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)