

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: P595197

Luminaire Tested: **IST-PA1D-727-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1D-727-U-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6893 lumens
Efficiency: N/A
Efficacy: 110.5 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

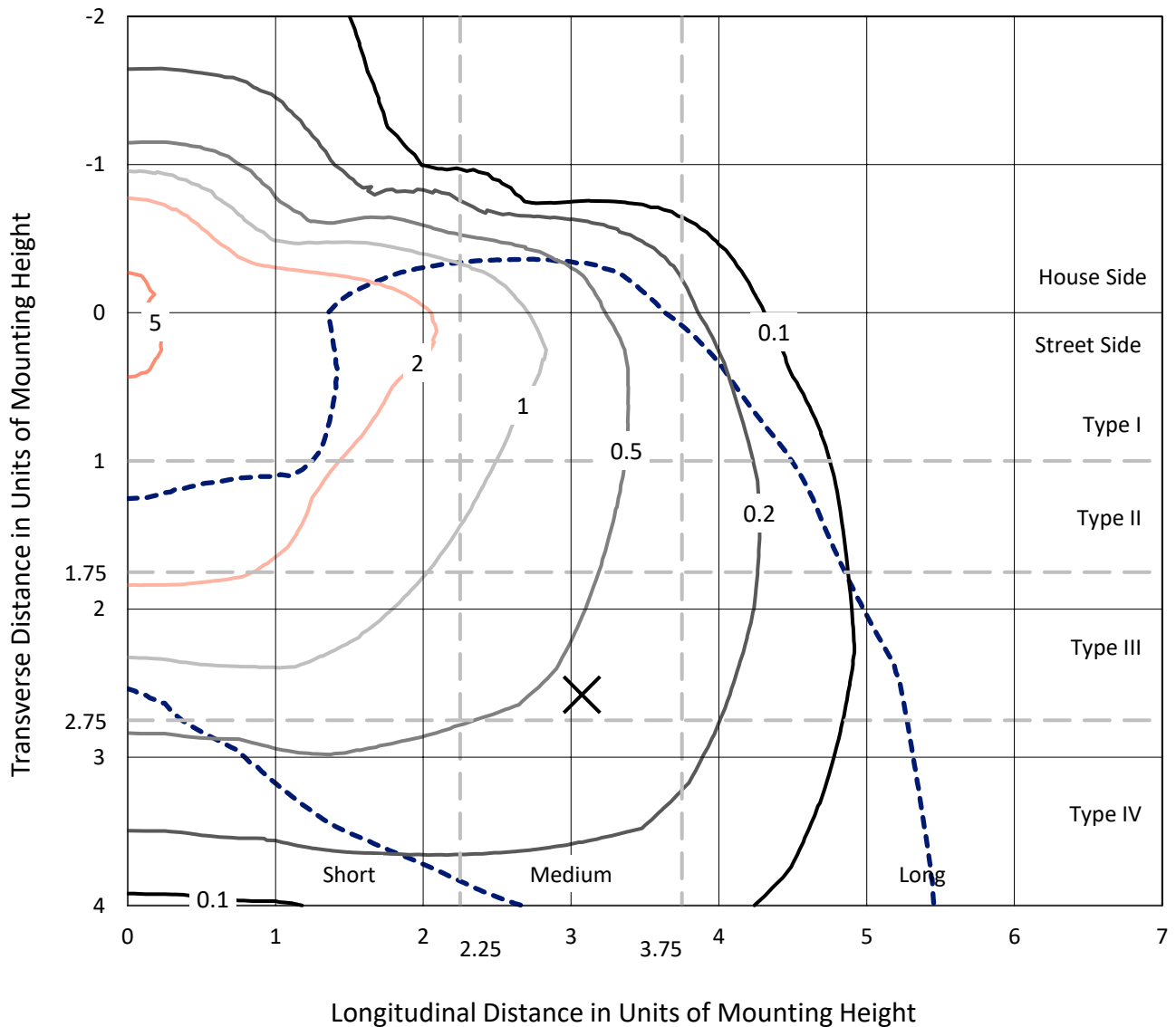
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

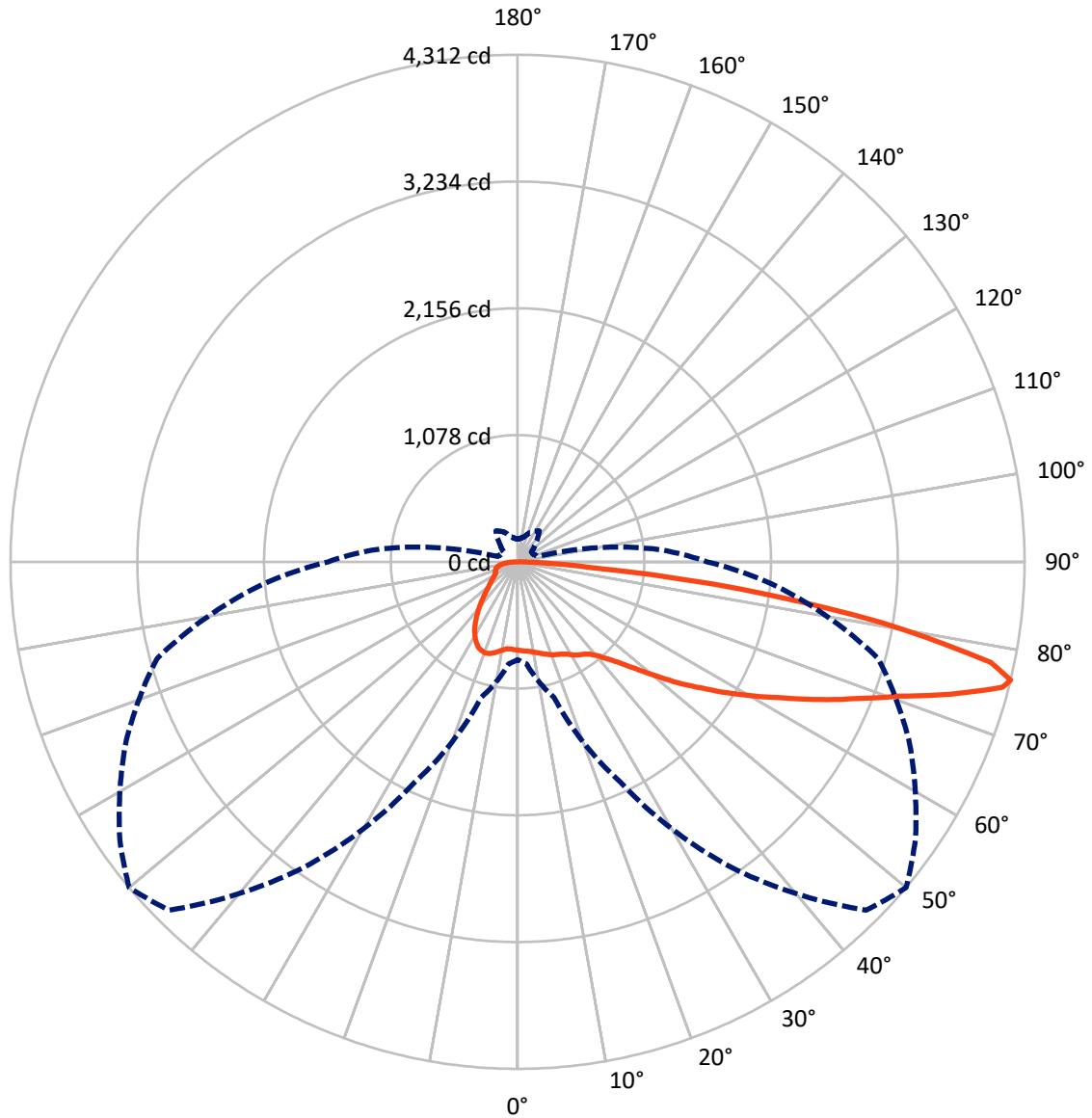
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

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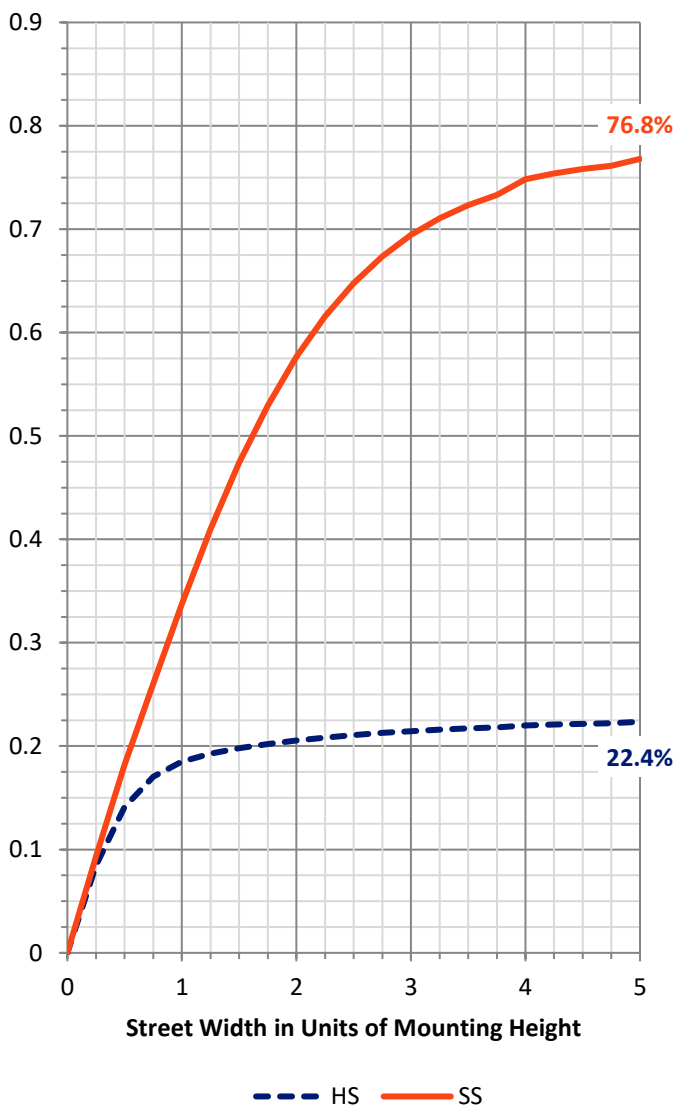
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1576.8	0.0	1576.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	5316.1	0.0	5316.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	6893.0	0.0	6893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	1.1
10°-20°	229.4	3.3
20°-30°	387.5	5.6
30°-40°	531.1	7.7
40°-50°	782.2	11.3
50°-60°	1230.4	17.9
60°-70°	1771.1	25.7
70°-80°	1610.4	23.4
80°-90°	278.0	4.0
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°	6893.0	100.0
0°-180°	6893.0	100.0

Coefficient of Utilization

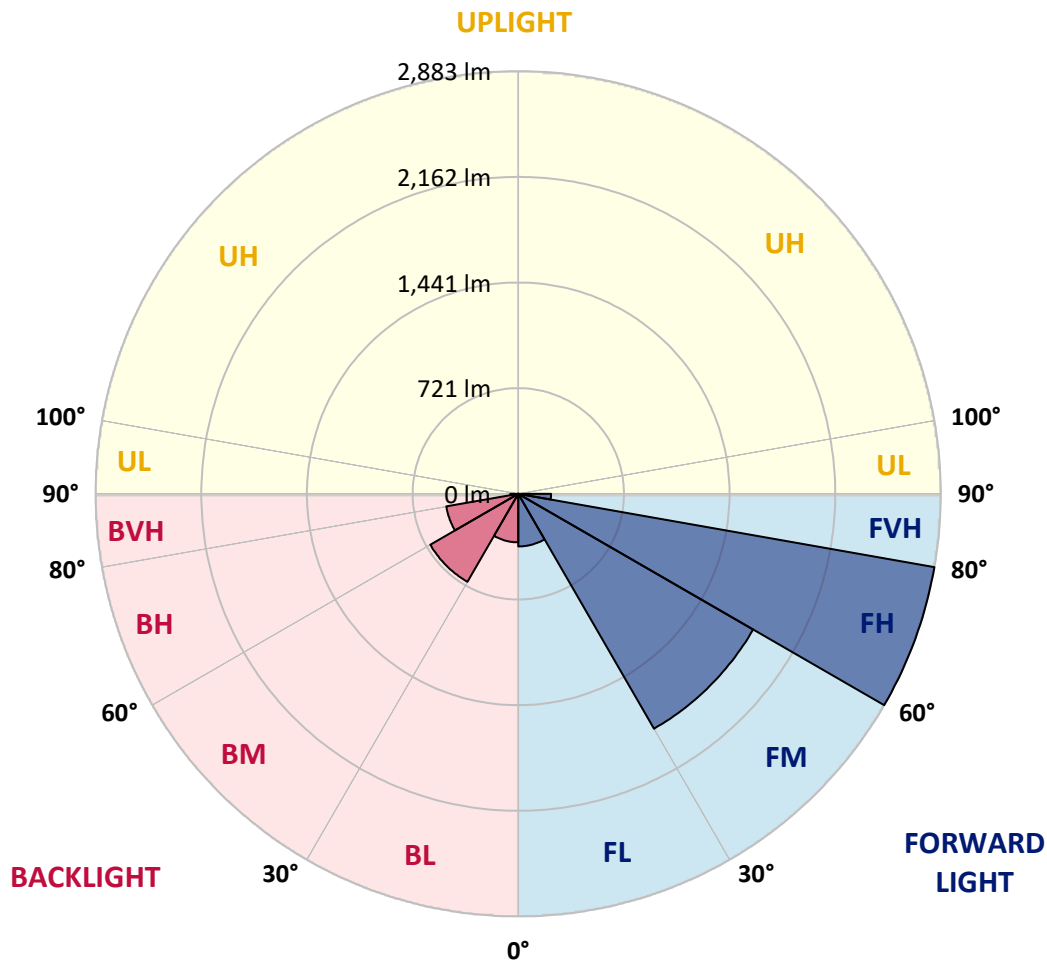


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	358.8	5.2			
FM (30°-60°)	1850.6	26.8			
FH (60°-80°)	2883.0	41.8			G2/5000
FVH (80°-90°)	223.8	3.2			G2/225
BL (0°-30°)	331.0	4.8	B1/500		
BM (30°-60°)	693.0	10.1	B1/1000		
BH (60°-80°)	498.5	7.2	B1/500		G1/500
BVH (80°-90°)	54.2	0.8			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3
2.5°	768.2	768.2	769.9	766.5	766.5	758.1	758.1	756.4	753.0	751.3	747.9
5°	796.9	796.9	791.8	783.4	778.3	768.2	763.1	759.8	753.0	744.6	736.1
7.5°	827.3	823.9	820.5	807.0	796.9	778.3	769.9	764.8	751.3	739.5	734.4
10°	859.4	854.3	845.9	829.0	813.8	791.8	781.7	775.0	759.8	749.6	737.8
12.5°	877.9	877.9	867.8	847.6	827.3	800.3	795.2	786.8	771.6	758.1	746.3
15°	896.5	898.2	888.1	864.4	840.8	820.5	812.1	807.0	790.2	769.9	754.7
17.5°	915.1	913.4	903.3	876.3	850.9	832.4	827.3	820.5	803.7	785.1	769.9
20°	928.6	925.2	921.8	888.1	862.8	850.9	844.2	839.1	822.2	802.0	781.7
22.5°	932.0	935.4	932.0	891.5	871.2	857.7	856.0	850.9	837.4	818.9	798.6
25°	933.7	935.4	940.4	901.6	883.0	872.9	869.5	866.1	856.0	840.8	813.8
27.5°	942.1	943.8	943.8	908.3	898.2	891.5	888.1	888.1	883.0	864.4	837.4
30°	943.8	945.5	948.9	925.2	921.8	916.8	918.5	916.8	908.3	888.1	857.7
32.5°	955.6	957.3	965.7	935.4	938.7	943.8	945.5	943.8	926.9	910.0	884.7
35°	994.4	992.8	999.5	960.7	957.3	959.0	964.1	962.4	955.6	940.4	923.5
37.5°	1119.4	1119.4	1100.8	1019.8	994.4	991.1	994.4	1002.9	1004.6	991.1	977.6
40°	1338.9	1327.1	1316.9	1141.3	1060.3	1040.0	1050.2	1055.2	1068.7	1068.7	1068.7
42.5°	1565.1	1566.8	1563.4	1330.4	1178.5	1127.8	1129.5	1141.3	1170.0	1175.1	1190.3
45°	1766.0	1777.8	1803.2	1549.9	1352.4	1239.3	1227.4	1239.3	1279.8	1313.5	1352.4
47.5°	1923.0	1909.5	1965.3	1779.5	1551.6	1391.2	1360.8	1364.2	1419.9	1473.9	1534.7
50°	2058.1	2061.5	2086.8	2014.2	1803.2	1563.4	1522.9	1516.1	1595.5	1652.9	1755.9
52.5°	2210.1	2199.9	2237.1	2220.2	2048.0	1774.5	1710.3	1690.1	1776.2	1857.2	1968.6
55°	2282.7	2292.8	2368.8	2411.0	2279.3	1963.6	1892.7	1899.4	1990.6	2076.7	2232.0
57.5°	2411.0	2421.1	2508.9	2596.7	2485.3	2164.5	2102.0	2102.0	2205.0	2301.2	2541.0
60°	2586.6	2588.3	2677.7	2829.7	2665.9	2358.6	2318.1	2316.4	2427.9	2539.3	2905.7
62.5°	2664.2	2684.5	2817.9	3015.4	2902.3	2596.7	2549.4	2562.9	2662.5	2792.6	3312.6
65°	2559.6	2603.5	2882.0	3140.4	3113.3	2844.9	2826.3	2844.9	2905.7	3045.8	3743.1
67.5°	2213.4	2272.5	2763.8	3224.8	3282.2	3131.9	3104.9	3101.5	3140.4	3297.4	4014.9
70°	2034.5	2069.9	2451.5	3256.9	3417.2	3422.3	3422.3	3400.4	3395.3	3510.1	4040.3
72.5°	1674.9	1712.0	2068.2	3077.9	3545.6	3810.6	3849.5	3768.4	3643.5	3619.8	3616.5
75°	1193.7	1220.7	1528.0	2421.1	3381.8	4183.8	4261.4	4104.4	3756.6	3380.1	2637.2
76°	832.4	871.2	1193.7	2068.2	3175.8	4190.5	4312.1	4129.7	3680.6	3174.1	2172.9
77.5°	422.1	435.6	690.5	1389.5	2657.5	3998.0	4116.2	3911.9	3349.7	2564.6	1379.4
80°	160.4	165.5	246.5	506.5	1458.7	3104.9	3150.5	2875.3	2216.8	1095.7	496.4
82.5°	84.4	87.8	138.4	249.9	599.4	1706.9	1926.4	1603.9	869.5	329.2	145.2
85°	42.2	45.6	81.0	152.0	297.2	533.5	617.9	584.2	288.7	124.9	54.0
87.5°	16.9	20.3	40.5	67.5	119.9	104.7	116.5	150.3	92.9	59.1	18.6
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°	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3
2.5°	747.9	746.3	747.9	746.3	747.9	747.9	749.6	746.3	746.3	749.6	744.6
5°	736.1	734.4	736.1	739.5	741.2	744.6	751.3	749.6	753.0	756.4	758.1
7.5°	731.1	729.4	734.4	736.1	741.2	747.9	758.1	764.8	768.2	775.0	771.6
10°	736.1	736.1	742.9	747.9	756.4	764.8	773.3	780.0	788.5	793.5	791.8
12.5°	744.6	742.9	754.7	761.5	773.3	781.7	788.5	791.8	798.6	805.3	803.7
15°	753.0	754.7	771.6	785.1	798.6	802.0	803.7	800.3	803.7	807.0	807.0
17.5°	769.9	771.6	790.2	805.3	817.2	813.8	805.3	796.9	796.9	798.6	800.3
20°	783.4	786.8	808.7	822.2	829.0	815.5	802.0	791.8	786.8	788.5	786.8
22.5°	798.6	805.3	827.3	834.1	823.9	807.0	790.2	776.6	776.6	778.3	778.3
25°	817.2	820.5	835.7	832.4	813.8	788.5	775.0	769.9	768.2	769.9	771.6
27.5°	834.1	835.7	844.2	820.5	785.1	758.1	753.0	754.7	756.4	758.1	759.8
30°	856.0	859.4	850.9	803.7	749.6	719.2	719.2	729.4	732.7	737.8	736.1
32.5°	883.0	886.4	861.1	781.7	704.0	673.7	675.3	690.5	700.7	704.0	705.7
35°	928.6	921.8	867.8	751.3	655.1	617.9	619.6	638.2	651.7	656.8	653.4
37.5°	984.3	982.6	877.9	712.5	594.3	560.5	562.2	570.7	584.2	585.9	587.6
40°	1077.2	1063.7	894.8	661.8	533.5	501.4	498.1	503.1	501.4	504.8	506.5
42.5°	1210.6	1175.1	916.8	604.4	479.5	445.7	442.4	433.9	423.8	413.6	408.6
45°	1367.6	1311.9	943.8	545.3	423.8	393.4	384.9	374.8	354.6	332.6	325.9
47.5°	1570.2	1463.8	974.2	486.2	371.4	347.8	341.0	325.9	302.2	276.9	271.8
50°	1777.8	1642.8	1004.6	437.3	329.2	315.7	309.0	293.8	263.4	239.7	234.7
52.5°	2019.3	1820.1	1036.7	393.4	292.1	292.1	287.0	263.4	234.7	212.7	209.4
55°	2297.9	2002.4	1087.3	351.2	265.1	271.8	265.1	241.4	214.4	199.2	197.5
57.5°	2630.5	2233.7	1151.5	305.6	241.4	246.5	246.5	229.6	211.0	200.9	199.2
60°	2964.8	2468.4	1192.0	271.8	222.9	227.9	238.1	229.6	217.8	212.7	211.0
62.5°	3285.6	2708.1	1122.8	243.1	204.3	219.5	244.8	246.5	234.7	236.4	236.4
65°	3525.3	2890.5	908.3	217.8	192.5	224.6	265.1	266.8	246.5	241.4	239.7
67.5°	3608.0	2941.1	611.2	200.9	185.7	227.9	288.7	282.0	246.5	236.4	231.3
70°	3451.0	2755.4	396.8	185.7	175.6	224.6	307.3	290.4	244.8	229.6	222.9
72.5°	2893.9	2350.2	265.1	172.2	165.5	221.2	319.1	290.4	239.7	217.8	211.0
75°	2009.2	1605.6	197.5	155.3	150.3	216.1	322.5	285.3	227.9	204.3	199.2
76°	1612.4	1203.8	179.0	148.6	143.5	212.7	320.8	280.3	219.5	197.5	192.5
77.5°	1018.1	692.2	150.3	136.8	133.4	206.0	314.0	268.4	207.7	185.7	180.7
80°	356.2	253.3	114.8	111.4	113.1	190.8	295.5	244.8	184.0	163.8	157.0
82.5°	141.8	116.5	86.1	86.1	89.5	163.8	266.8	216.1	160.4	135.1	124.9
85°	55.7	50.7	60.8	60.8	64.2	133.4	222.9	168.8	109.7	84.4	81.0
87.5°	16.9	23.6	27.0	28.7	30.4	67.5	126.6	74.3	49.0	35.5	28.7
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)