

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: P595062

Luminaire Tested: **IST-PA1B-740-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595062
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-PA1B-740-U-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5122 lumens
Efficiency: N/A
Efficacy: 140.7 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

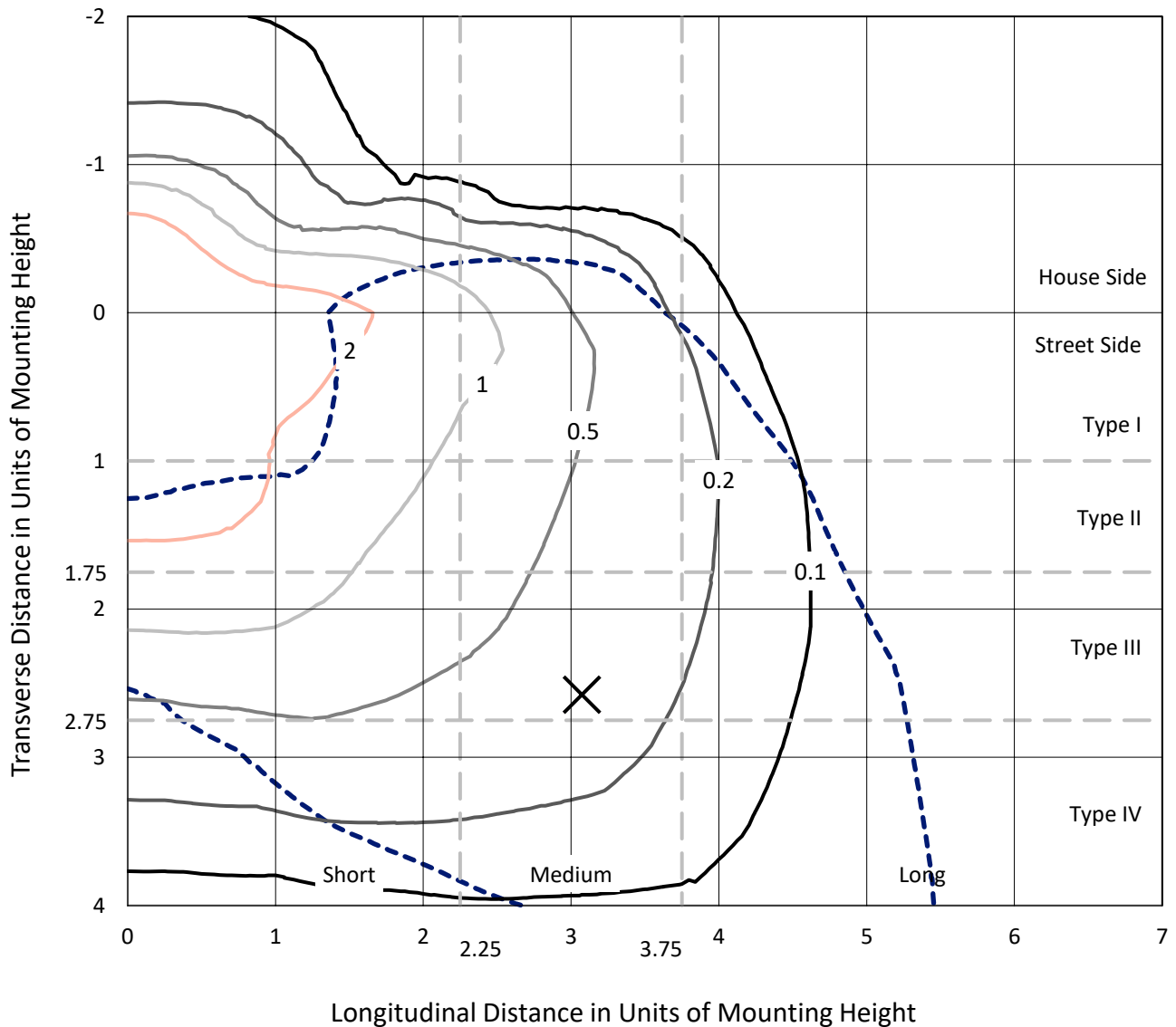
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

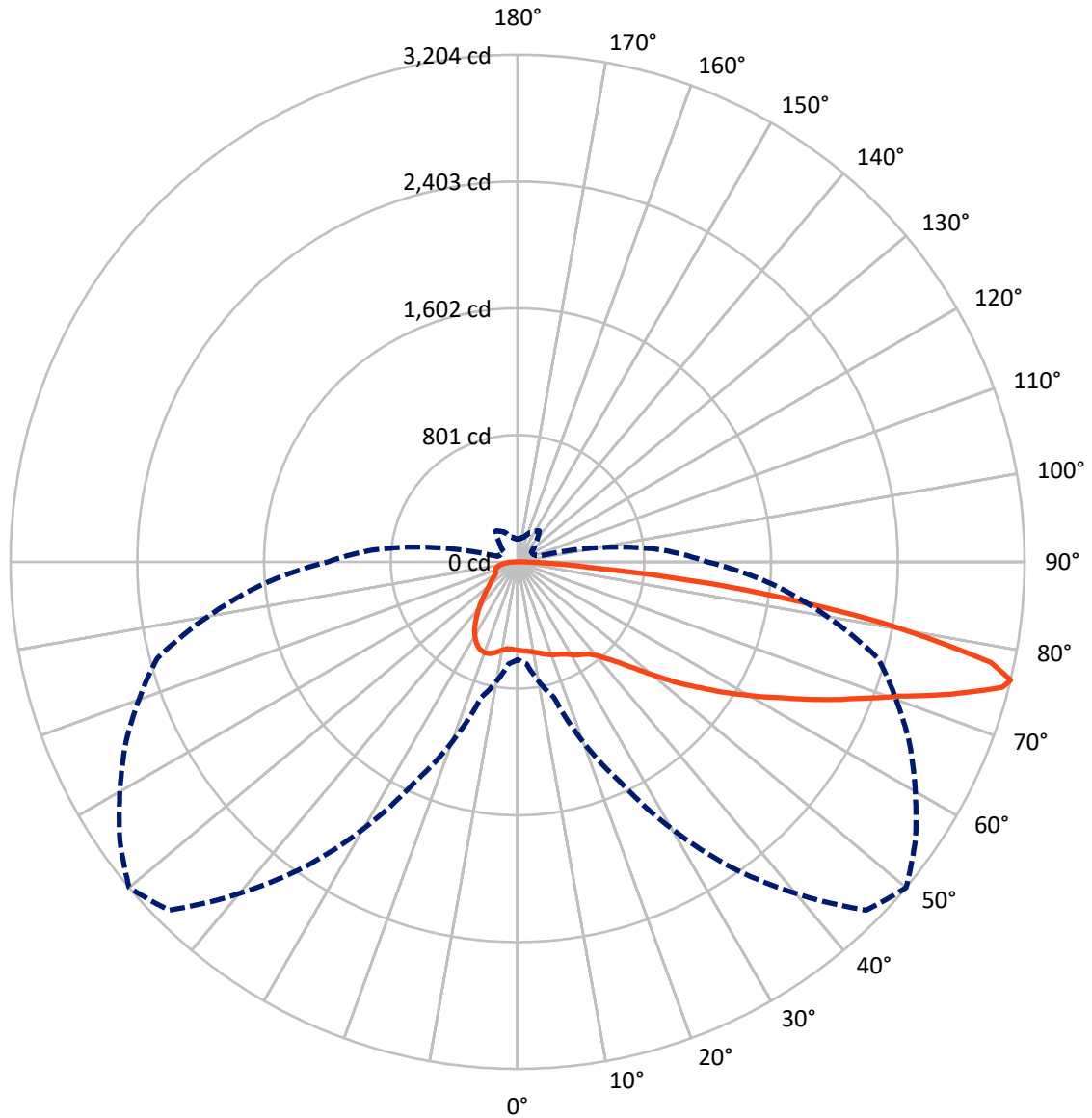
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.2 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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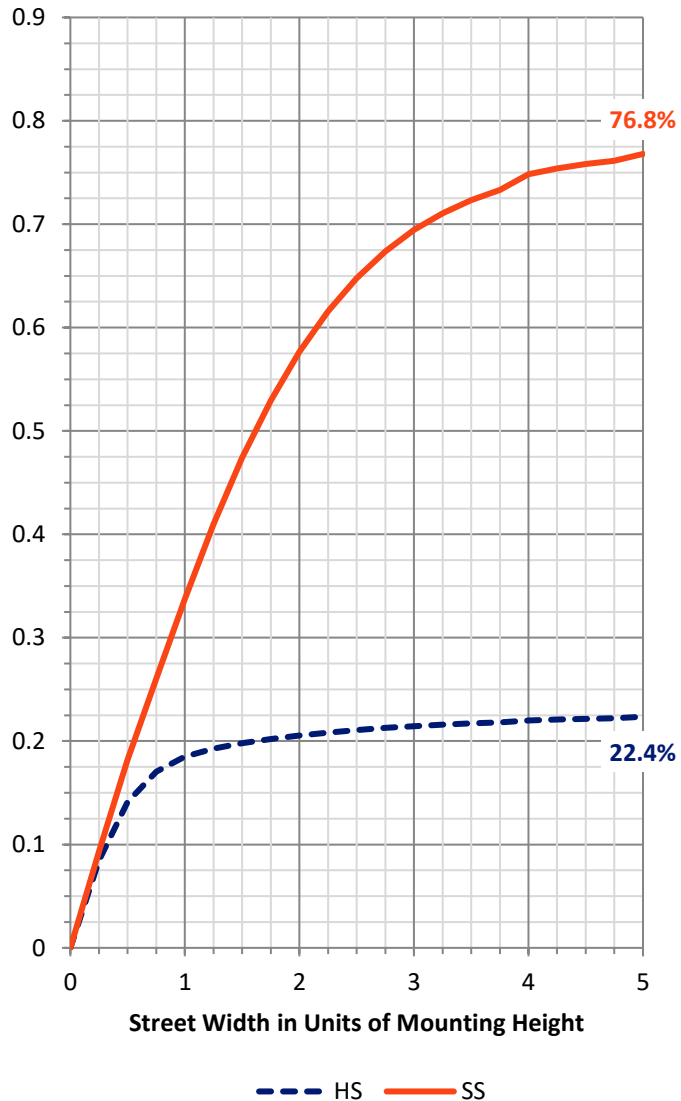
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1171.7	0.0	1171.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3950.3	0.0	3950.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	5122.0	0.0	5122.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	1.1
10°-20°	170.4	3.3
20°-30°	287.9	5.6
30°-40°	394.6	7.7
40°-50°	581.2	11.3
50°-60°	914.3	17.9
60°-70°	1316.1	25.7
70°-80°	1196.7	23.4
80°-90°	206.6	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°	5122.0	100.0
0°-180°	5122.0	100.0

Coefficient of Utilization

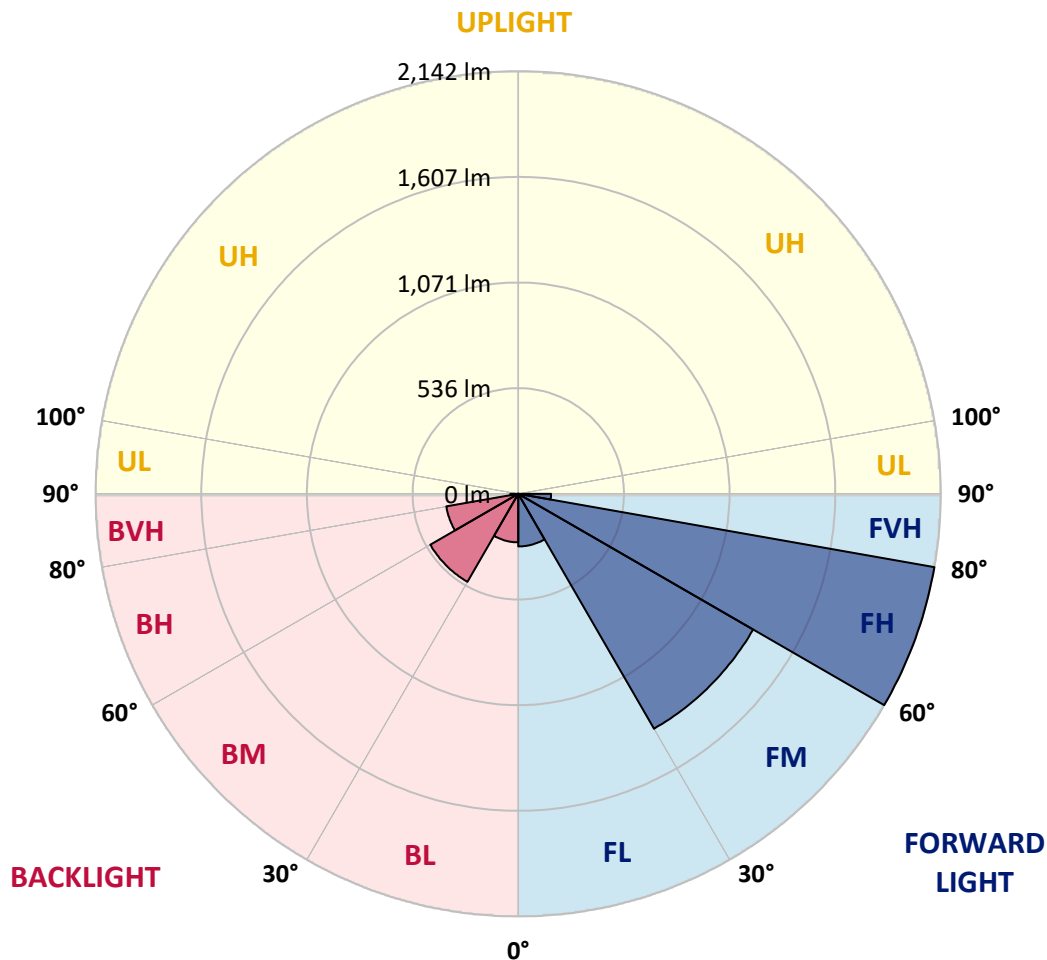


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	266.6	5.2			
FM (30°-60°)	1375.2	26.8			
FH (60°-80°)	2142.3	41.8			G2/5000
FVH (80°-90°)	166.3	3.2			G2/225
BL (0°-30°)	246.0	4.8	B1/500		
BM (30°-60°)	515.0	10.1	B1/1000		
BH (60°-80°)	370.5	7.2	B1/500		G1/500
BVH (80°-90°)	40.3	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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 CATALOG NUMBER: IST-PA1B-740-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	558.3	558.3	558.3	558.3	558.3	558.3	558.3	558.3	558.3	558.3	558.3
2.5°	570.8	570.8	572.1	569.6	569.6	563.3	563.3	562.1	559.5	558.3	555.8
5°	592.2	592.2	588.4	582.1	578.4	570.8	567.1	564.6	559.5	553.3	547.0
7.5°	614.7	612.2	609.7	599.7	592.2	578.4	572.1	568.3	558.3	549.5	545.7
10°	638.6	634.8	628.5	616.0	604.7	588.4	580.9	575.9	564.6	557.0	548.2
12.5°	652.4	652.4	644.9	629.8	614.7	594.7	590.9	584.6	573.3	563.3	554.5
15°	666.2	667.4	659.9	642.3	624.8	609.7	603.5	599.7	587.1	572.1	560.8
17.5°	680.0	678.7	671.2	651.1	632.3	618.5	614.7	609.7	597.2	583.4	572.1
20°	690.0	687.5	685.0	659.9	641.1	632.3	627.3	623.5	611.0	595.9	580.9
22.5°	692.5	695.0	692.5	662.4	647.4	637.3	636.1	632.3	622.3	608.5	593.4
25°	693.8	695.0	698.8	669.9	656.1	648.6	646.1	643.6	636.1	624.8	604.7
27.5°	700.1	701.3	701.3	675.0	667.4	662.4	659.9	659.9	656.1	642.3	622.3
30°	701.3	702.6	705.1	687.5	685.0	681.2	682.5	681.2	675.0	659.9	637.3
32.5°	710.1	711.3	717.6	695.0	697.5	701.3	702.6	701.3	688.8	676.2	657.4
35°	738.9	737.7	742.7	713.9	711.3	712.6	716.4	715.1	710.1	698.8	686.3
37.5°	831.8	831.8	818.0	757.8	738.9	736.4	738.9	745.2	746.5	736.4	726.4
40°	994.9	986.1	978.6	848.1	787.9	772.8	780.3	784.1	794.1	794.1	794.1
42.5°	1163.0	1164.2	1161.7	988.6	875.7	838.1	839.3	848.1	869.4	873.2	884.5
45°	1312.3	1321.1	1339.9	1151.7	1004.9	920.9	912.1	920.9	951.0	976.1	1004.9
47.5°	1429.0	1418.9	1460.3	1322.3	1153.0	1033.8	1011.2	1013.7	1055.1	1095.2	1140.4
50°	1529.3	1531.8	1550.7	1496.7	1339.9	1161.7	1131.6	1126.6	1185.6	1228.2	1304.8
52.5°	1642.2	1634.7	1662.3	1649.8	1521.8	1318.6	1270.9	1255.8	1319.8	1380.0	1462.8
55°	1696.2	1703.7	1760.2	1791.5	1693.7	1459.1	1406.4	1411.4	1479.1	1543.1	1658.5
57.5°	1791.5	1799.1	1864.3	1929.5	1846.7	1608.4	1561.9	1561.9	1638.5	1710.0	1888.1
60°	1922.0	1923.3	1989.8	2102.7	1981.0	1752.6	1722.5	1721.3	1804.1	1886.9	2159.1
62.5°	1979.7	1994.8	2093.9	2240.7	2156.6	1929.5	1894.4	1904.4	1978.5	2075.1	2461.5
65°	1901.9	1934.6	2141.6	2333.5	2313.4	2114.0	2100.2	2114.0	2159.1	2263.3	2781.4
67.5°	1644.7	1688.7	2053.7	2396.2	2438.9	2327.2	2307.2	2304.7	2333.5	2450.2	2983.4
70°	1511.8	1538.1	1821.6	2420.1	2539.3	2543.0	2543.0	2526.7	2523.0	2608.3	3002.2
72.5°	1244.5	1272.1	1536.9	2287.1	2634.6	2831.6	2860.4	2800.2	2707.4	2689.8	2687.3
75°	887.0	907.1	1135.4	1799.1	2512.9	3108.8	3166.5	3049.9	2791.4	2511.7	1959.6
76°	618.5	647.4	887.0	1536.9	2359.9	3113.9	3204.2	3068.7	2735.0	2358.6	1614.6
77.5°	313.6	323.7	513.1	1032.5	1974.7	2970.8	3058.7	2906.9	2489.1	1905.7	1025.0
80°	119.2	122.9	183.2	376.4	1084.0	2307.2	2341.0	2136.5	1647.3	814.2	368.8
82.5°	62.7	65.2	102.9	185.7	445.4	1268.4	1431.5	1191.8	646.1	244.6	107.9
85°	31.4	33.9	60.2	112.9	220.8	396.4	459.2	434.1	214.5	92.8	40.1
87.5°	12.5	15.1	30.1	50.2	89.1	77.8	86.6	111.7	69.0	43.9	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P595062
 CATALOG NUMBER: IST-PA1B-740-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	558.3	558.3	558.3	558.3	558.3	558.3	558.3	558.3	558.3	558.3	558.3
2.5°	555.8	554.5	555.8	554.5	555.8	555.8	557.0	554.5	554.5	557.0	553.3
5°	547.0	545.7	547.0	549.5	550.8	553.3	558.3	557.0	559.5	562.1	563.3
7.5°	543.2	542.0	545.7	547.0	550.8	555.8	563.3	568.3	570.8	575.9	573.3
10°	547.0	547.0	552.0	555.8	562.1	568.3	574.6	579.6	585.9	589.7	588.4
12.5°	553.3	552.0	560.8	565.8	574.6	580.9	585.9	588.4	593.4	598.4	597.2
15°	559.5	560.8	573.3	583.4	593.4	595.9	597.2	594.7	597.2	599.7	599.7
17.5°	572.1	573.3	587.1	598.4	607.2	604.7	598.4	592.2	592.2	593.4	594.7
20°	582.1	584.6	600.9	611.0	616.0	606.0	595.9	588.4	584.6	585.9	584.6
22.5°	593.4	598.4	614.7	619.8	612.2	599.7	587.1	577.1	577.1	578.4	578.4
25°	607.2	609.7	621.0	618.5	604.7	585.9	575.9	572.1	570.8	572.1	573.3
27.5°	619.8	621.0	627.3	609.7	583.4	563.3	559.5	560.8	562.1	563.3	564.6
30°	636.1	638.6	632.3	597.2	557.0	534.4	534.4	542.0	544.5	548.2	547.0
32.5°	656.1	658.7	639.8	580.9	523.2	500.6	501.8	513.1	520.6	523.2	524.4
35°	690.0	685.0	644.9	558.3	486.8	459.2	460.4	474.2	484.3	488.0	485.5
37.5°	731.4	730.2	652.4	529.4	441.6	416.5	417.8	424.0	434.1	435.3	436.6
40°	800.4	790.4	664.9	491.8	396.4	372.6	370.1	373.9	372.6	375.1	376.4
42.5°	899.5	873.2	681.2	449.1	356.3	331.2	328.7	322.4	314.9	307.4	303.6
45°	1016.2	974.8	701.3	405.2	314.9	292.3	286.0	278.5	263.5	247.2	242.1
47.5°	1166.8	1087.7	723.9	361.3	276.0	258.4	253.4	242.1	224.6	205.8	202.0
50°	1321.1	1220.7	746.5	324.9	244.6	234.6	229.6	218.3	195.7	178.1	174.4
52.5°	1500.5	1352.4	770.3	292.3	217.0	217.0	213.3	195.7	174.4	158.1	155.6
55°	1707.5	1487.9	807.9	261.0	197.0	202.0	197.0	179.4	159.3	148.0	146.8
57.5°	1954.6	1659.8	855.6	227.1	179.4	183.2	183.2	170.6	156.8	149.3	148.0
60°	2203.0	1834.2	885.7	202.0	165.6	169.4	176.9	170.6	161.8	158.1	156.8
62.5°	2441.4	2012.3	834.3	180.7	151.8	163.1	181.9	183.2	174.4	175.6	175.6
65°	2619.6	2147.8	675.0	161.8	143.0	166.9	197.0	198.2	183.2	179.4	178.1
67.5°	2681.0	2185.5	454.2	149.3	138.0	169.4	214.5	209.5	183.2	175.6	171.9
70°	2564.4	2047.5	294.8	138.0	130.5	166.9	228.3	215.8	181.9	170.6	165.6
72.5°	2150.3	1746.4	197.0	128.0	122.9	164.3	237.1	215.8	178.1	161.8	156.8
75°	1492.9	1193.1	146.8	115.4	111.7	160.6	239.6	212.0	169.4	151.8	148.0
76°	1198.1	894.5	133.0	110.4	106.6	158.1	238.4	208.3	163.1	146.8	143.0
77.5°	756.5	514.4	111.7	101.6	99.1	153.1	233.4	199.5	154.3	138.0	134.2
80°	264.7	188.2	85.3	82.8	84.1	141.8	219.6	181.9	136.7	121.7	116.7
82.5°	105.4	86.6	64.0	64.0	66.5	121.7	198.2	160.6	119.2	100.4	92.8
85°	41.4	37.6	45.2	45.2	47.7	99.1	165.6	125.5	81.5	62.7	60.2
87.5°	12.5	17.6	20.1	21.3	22.6	50.2	94.1	55.2	36.4	26.3	21.3
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)