

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: P595170

Luminaire Tested: **IST-PA1C-827-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595170
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-PA1C-827-U-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4869 lumens
Efficiency: N/A
Efficacy: 100.8 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

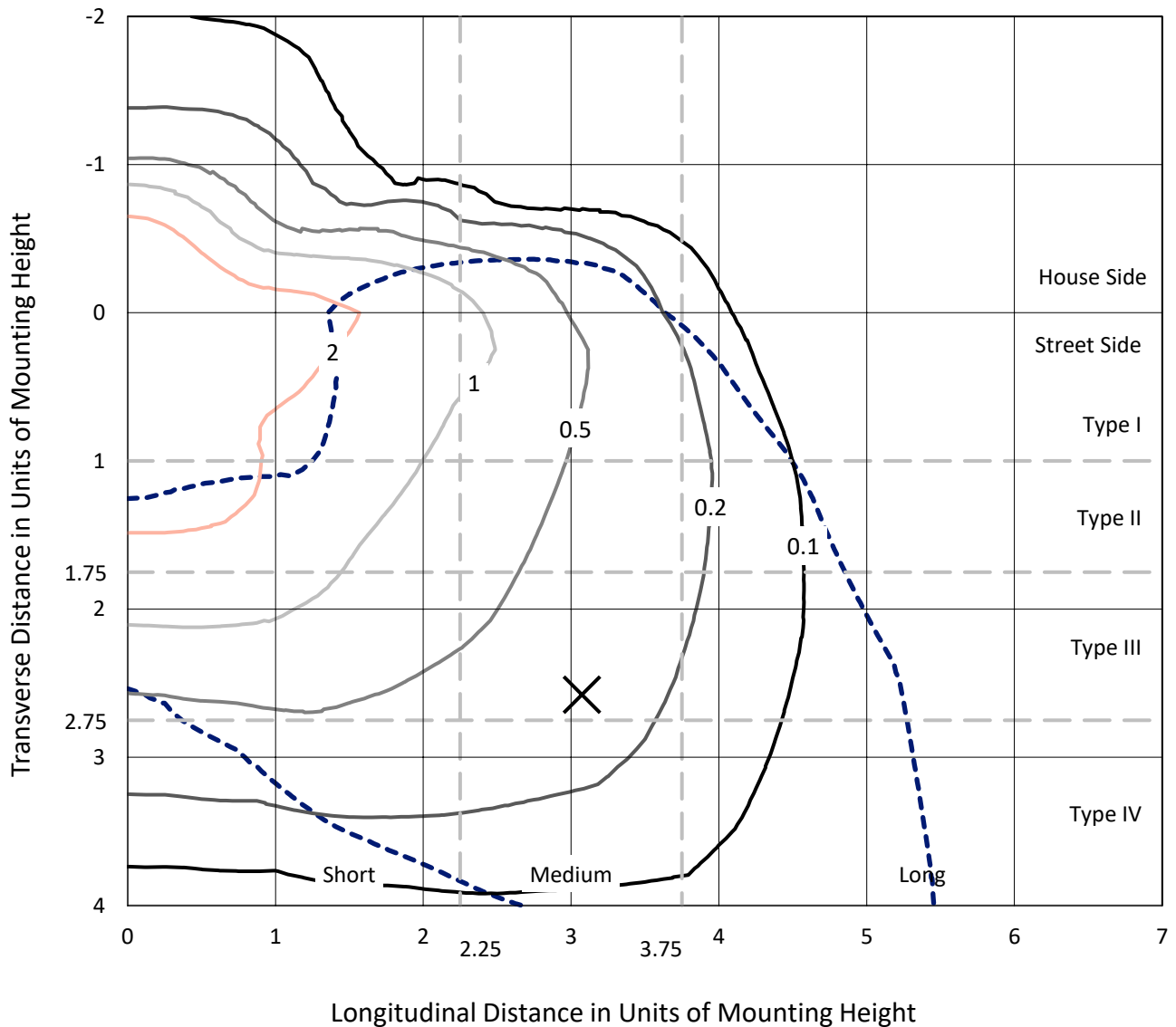
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

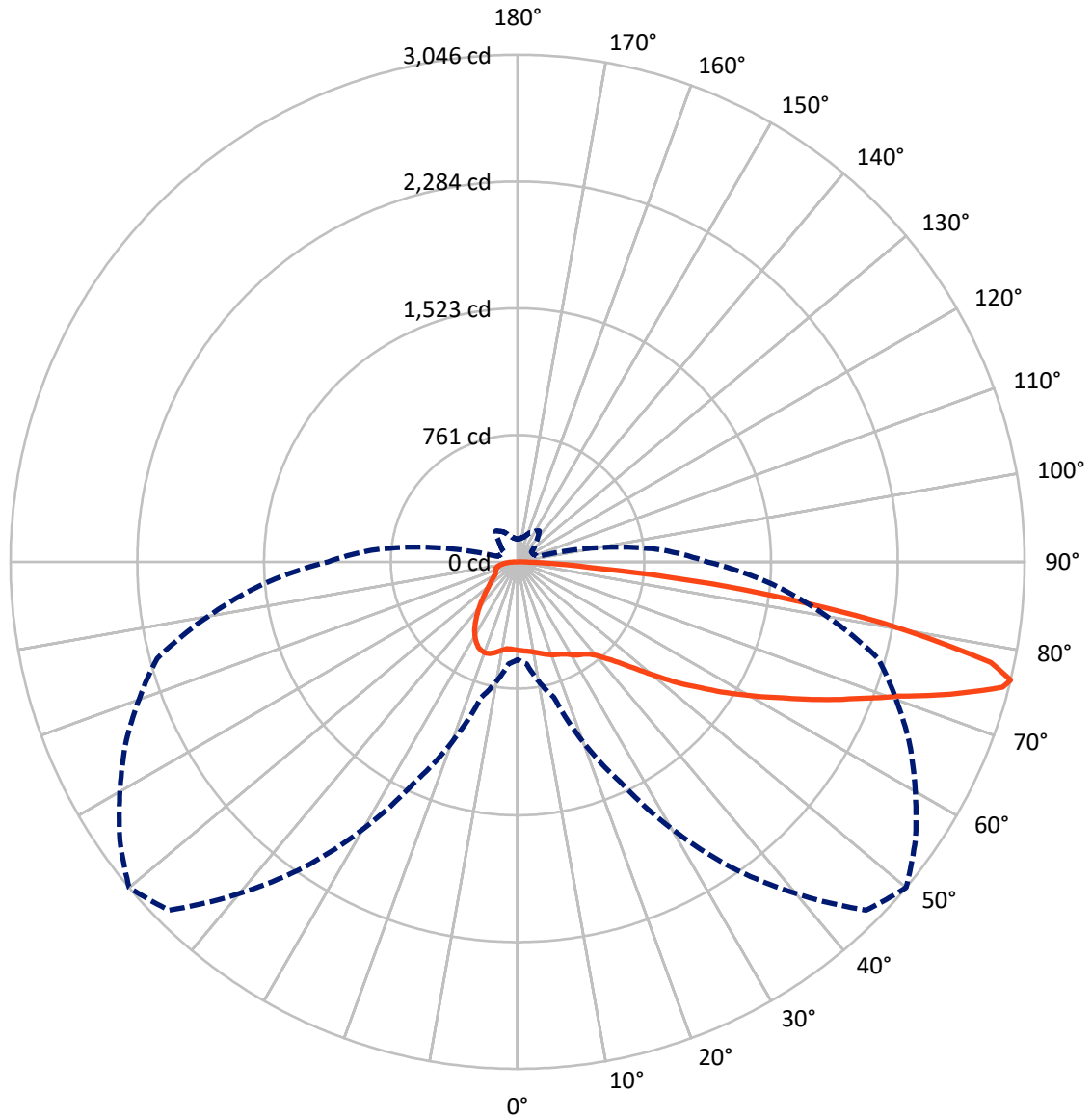
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4 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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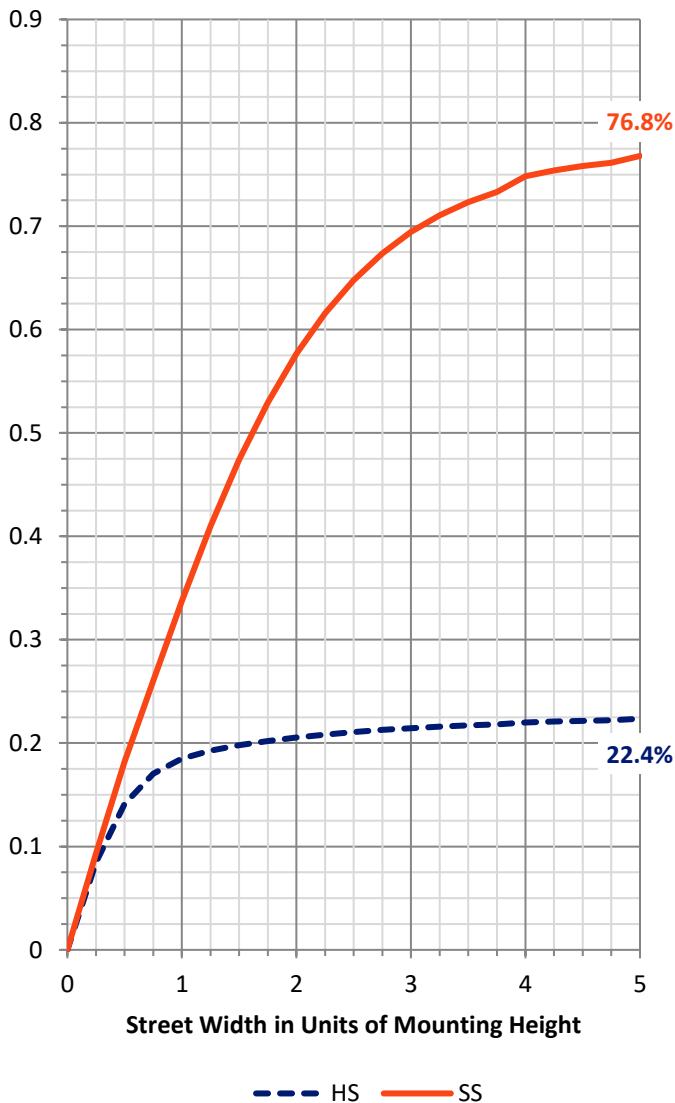
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1113.8	0.0	1113.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3755.2	0.0	3755.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	4869.0	0.0	4869.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	1.1
10°-20°	162.0	3.3
20°-30°	273.7	5.6
30°-40°	375.1	7.7
40°-50°	552.5	11.3
50°-60°	869.1	17.9
60°-70°	1251.0	25.7
70°-80°	1137.5	23.4
80°-90°	196.4	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°	4869.0	100.0
0°-180°	4869.0	100.0

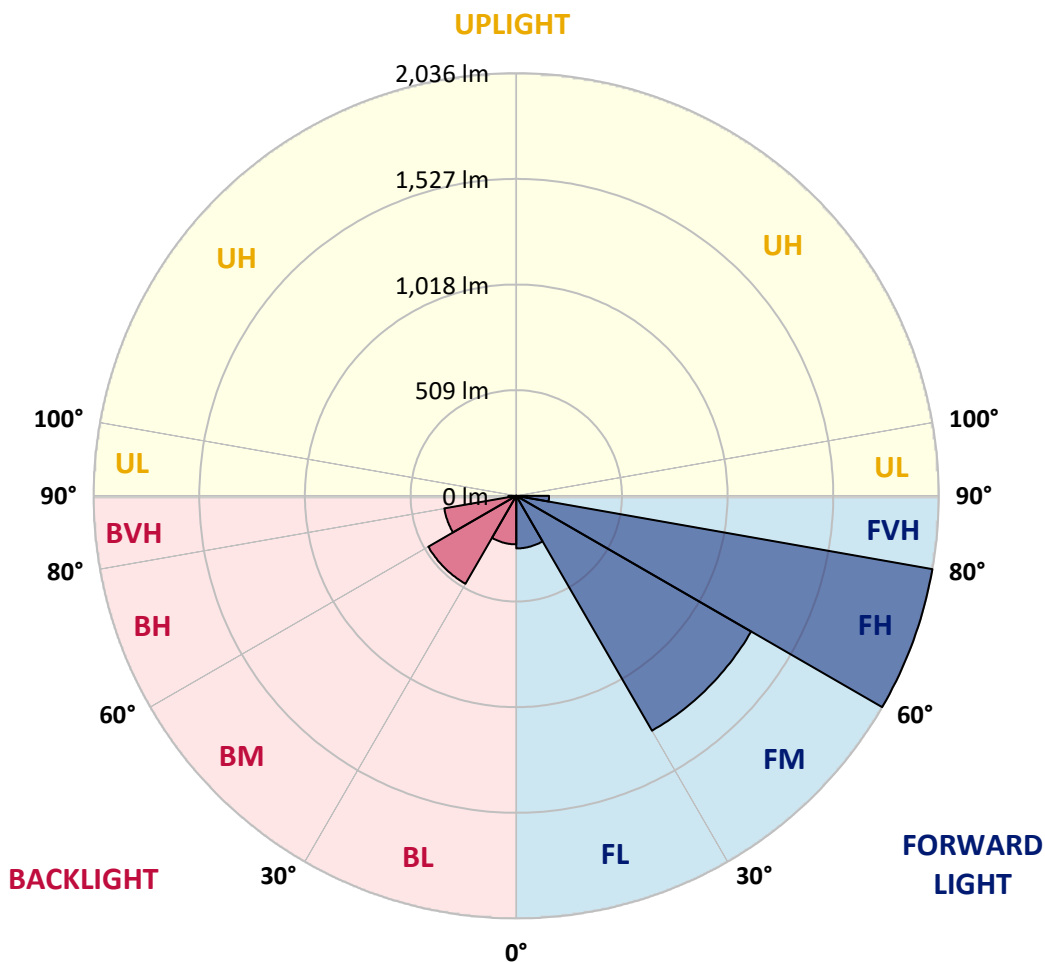


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	253.4	5.2			
FM (30°-60°)	1307.2	26.8			
FH (60°-80°)	2036.4	41.8			G2/5000
FVH (80°-90°)	158.1	3.2			G2/225
BL (0°-30°)	233.8	4.8	B1/500		
BM (30°-60°)	489.5	10.1	B1/1000		
BH (60°-80°)	352.1	7.2	B1/500		G1/500
BVH (80°-90°)	38.3	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	530.7	530.7	530.7	530.7	530.7	530.7	530.7	530.7	530.7	530.7	530.7
2.5°	542.6	542.6	543.8	541.4	541.4	535.5	535.5	534.3	531.9	530.7	528.3
5°	562.9	562.9	559.3	553.4	549.8	542.6	539.1	536.7	531.9	525.9	520.0
7.5°	584.4	582.0	579.6	570.1	562.9	549.8	543.8	540.3	530.7	522.4	518.8
10°	607.0	603.5	597.5	585.6	574.8	559.3	552.2	547.4	536.7	529.5	521.2
12.5°	620.2	620.2	613.0	598.7	584.4	565.3	561.7	555.8	545.0	535.5	527.1
15°	633.3	634.5	627.3	610.6	593.9	579.6	573.6	570.1	558.1	543.8	533.1
17.5°	646.4	645.2	638.0	619.0	601.1	588.0	584.4	579.6	567.7	554.6	543.8
20°	655.9	653.5	651.2	627.3	609.4	601.1	596.3	592.7	580.8	566.5	552.2
22.5°	658.3	660.7	658.3	629.7	615.4	605.8	604.7	601.1	591.5	578.4	564.1
25°	659.5	660.7	664.3	636.9	623.7	616.6	614.2	611.8	604.7	593.9	574.8
27.5°	665.5	666.7	666.7	641.6	634.5	629.7	627.3	627.3	623.7	610.6	591.5
30°	666.7	667.9	670.2	653.5	651.2	647.6	648.8	647.6	641.6	627.3	605.8
32.5°	675.0	676.2	682.2	660.7	663.1	666.7	667.9	666.7	654.7	642.8	624.9
35°	702.4	701.3	706.0	678.6	676.2	677.4	681.0	679.8	675.0	664.3	652.4
37.5°	790.7	790.7	777.6	720.3	702.4	700.1	702.4	708.4	709.6	700.1	690.5
40°	945.7	937.4	930.2	806.2	749.0	734.6	741.8	745.4	754.9	754.9	754.9
42.5°	1105.5	1106.7	1104.4	939.8	832.4	796.7	797.9	806.2	826.5	830.1	840.8
45°	1247.5	1255.8	1273.7	1094.8	955.3	875.4	867.0	875.4	904.0	927.8	955.3
47.5°	1358.4	1348.8	1388.2	1257.0	1096.0	982.7	961.2	963.6	1003.0	1041.1	1084.1
50°	1453.8	1456.2	1474.1	1422.8	1273.7	1104.4	1075.7	1071.0	1127.0	1167.6	1240.3
52.5°	1561.1	1554.0	1580.2	1568.3	1446.6	1253.4	1208.1	1193.8	1254.6	1311.9	1390.6
55°	1612.4	1619.6	1673.2	1703.0	1610.0	1387.0	1336.9	1341.7	1406.1	1466.9	1576.6
57.5°	1703.0	1710.2	1772.2	1834.2	1755.5	1528.9	1484.8	1484.8	1557.5	1625.5	1794.9
60°	1827.1	1828.3	1891.5	1998.8	1883.1	1666.1	1637.4	1636.3	1715.0	1793.7	2052.5
62.5°	1881.9	1896.2	1990.5	2130.0	2050.1	1834.2	1800.8	1810.4	1880.7	1972.6	2339.9
65°	1808.0	1839.0	2035.8	2218.2	2199.2	2009.5	1996.4	2009.5	2052.5	2151.5	2644.0
67.5°	1563.5	1605.2	1952.3	2277.9	2318.4	2212.3	2193.2	2190.8	2218.2	2329.2	2836.0
70°	1437.1	1462.1	1731.7	2300.5	2413.8	2417.4	2417.4	2401.9	2398.3	2479.4	2853.9
72.5°	1183.1	1209.3	1460.9	2174.1	2504.5	2691.7	2719.1	2661.9	2573.6	2556.9	2554.6
75°	843.2	862.3	1079.3	1710.2	2388.8	2955.3	3010.1	2899.2	2653.5	2387.6	1862.9
76°	588.0	615.4	843.2	1460.9	2243.3	2960.0	3045.9	2917.1	2599.9	2242.1	1534.9
77.5°	298.2	307.7	487.8	981.5	1877.2	2824.1	2907.6	2763.3	2366.1	1811.6	974.4
80°	113.3	116.9	174.1	357.8	1030.4	2193.2	2225.4	2031.0	1565.9	774.0	350.6
82.5°	59.6	62.0	97.8	176.5	423.4	1205.7	1360.8	1133.0	614.2	232.6	102.6
85°	29.8	32.2	57.2	107.3	209.9	376.9	436.5	412.6	203.9	88.3	38.2
87.5°	11.9	14.3	28.6	47.7	84.7	73.9	82.3	106.1	65.6	41.7	13.1
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°	530.7	530.7	530.7	530.7	530.7	530.7	530.7	530.7	530.7	530.7	530.7
2.5°	528.3	527.1	528.3	527.1	528.3	528.3	529.5	527.1	527.1	529.5	525.9
5°	520.0	518.8	520.0	522.4	523.6	525.9	530.7	529.5	531.9	534.3	535.5
7.5°	516.4	515.2	518.8	520.0	523.6	528.3	535.5	540.3	542.6	547.4	545.0
10°	520.0	520.0	524.7	528.3	534.3	540.3	546.2	551.0	556.9	560.5	559.3
12.5°	525.9	524.7	533.1	537.9	546.2	552.2	556.9	559.3	564.1	568.9	567.7
15°	531.9	533.1	545.0	554.6	564.1	566.5	567.7	565.3	567.7	570.1	570.1
17.5°	543.8	545.0	558.1	568.9	577.2	574.8	568.9	562.9	562.9	564.1	565.3
20°	553.4	555.8	571.3	580.8	585.6	576.0	566.5	559.3	555.8	556.9	555.8
22.5°	564.1	568.9	584.4	589.1	582.0	570.1	558.1	548.6	548.6	549.8	549.8
25°	577.2	579.6	590.3	588.0	574.8	556.9	547.4	543.8	542.6	543.8	545.0
27.5°	589.1	590.3	596.3	579.6	554.6	535.5	531.9	533.1	534.3	535.5	536.7
30°	604.7	607.0	601.1	567.7	529.5	508.1	508.1	515.2	517.6	521.2	520.0
32.5°	623.7	626.1	608.2	552.2	497.3	475.9	477.0	487.8	494.9	497.3	498.5
35°	655.9	651.2	613.0	530.7	462.7	436.5	437.7	450.8	460.3	463.9	461.5
37.5°	695.3	694.1	620.2	503.3	419.8	395.9	397.1	403.1	412.6	413.8	415.0
40°	760.9	751.3	632.1	467.5	376.9	354.2	351.8	355.4	354.2	356.6	357.8
42.5°	855.1	830.1	647.6	427.0	338.7	314.8	312.5	306.5	299.3	292.2	288.6
45°	966.0	926.7	666.7	385.2	299.3	277.9	271.9	264.8	250.4	234.9	230.2
47.5°	1109.1	1034.0	688.1	343.5	262.4	245.7	240.9	230.2	213.5	195.6	192.0
50°	1255.8	1160.4	709.6	308.9	232.6	223.0	218.2	207.5	186.0	169.4	165.8
52.5°	1426.4	1285.6	732.3	277.9	206.3	206.3	202.7	186.0	165.8	150.3	147.9
55°	1623.1	1414.4	768.0	248.1	187.2	192.0	187.2	170.5	151.5	140.7	139.5
57.5°	1858.1	1577.8	813.4	215.9	170.5	174.1	174.1	162.2	149.1	141.9	140.7
60°	2094.2	1743.6	842.0	192.0	157.4	161.0	168.2	162.2	153.8	150.3	149.1
62.5°	2320.8	1912.9	793.1	171.7	144.3	155.0	172.9	174.1	165.8	167.0	167.0
65°	2490.2	2041.7	641.6	153.8	136.0	158.6	187.2	188.4	174.1	170.5	169.4
67.5°	2548.6	2077.5	431.7	141.9	131.2	161.0	203.9	199.2	174.1	167.0	163.4
70°	2437.7	1946.3	280.3	131.2	124.0	158.6	217.1	205.1	172.9	162.2	157.4
72.5°	2044.1	1660.1	187.2	121.6	116.9	156.2	225.4	205.1	169.4	153.8	149.1
75°	1419.2	1134.2	139.5	109.7	106.1	152.7	227.8	201.6	161.0	144.3	140.7
76°	1138.9	850.3	126.4	104.9	101.4	150.3	226.6	198.0	155.0	139.5	136.0
77.5°	719.1	489.0	106.1	96.6	94.2	145.5	221.8	189.6	146.7	131.2	127.6
80°	251.6	178.9	81.1	78.7	79.9	134.8	208.7	172.9	130.0	115.7	110.9
82.5°	100.2	82.3	60.8	60.8	63.2	115.7	188.4	152.7	113.3	95.4	88.3
85°	39.4	35.8	42.9	42.9	45.3	94.2	157.4	119.3	77.5	59.6	57.2
87.5°	11.9	16.7	19.1	20.3	21.5	47.7	89.4	52.5	34.6	25.0	20.3
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)