

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: P595044

Luminaire Tested: **IST-PA1B-730-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595044  
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-730-U-T4W  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3000K, 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: 4665 lumens  
Efficiency: N/A  
Efficacy: 128.2 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

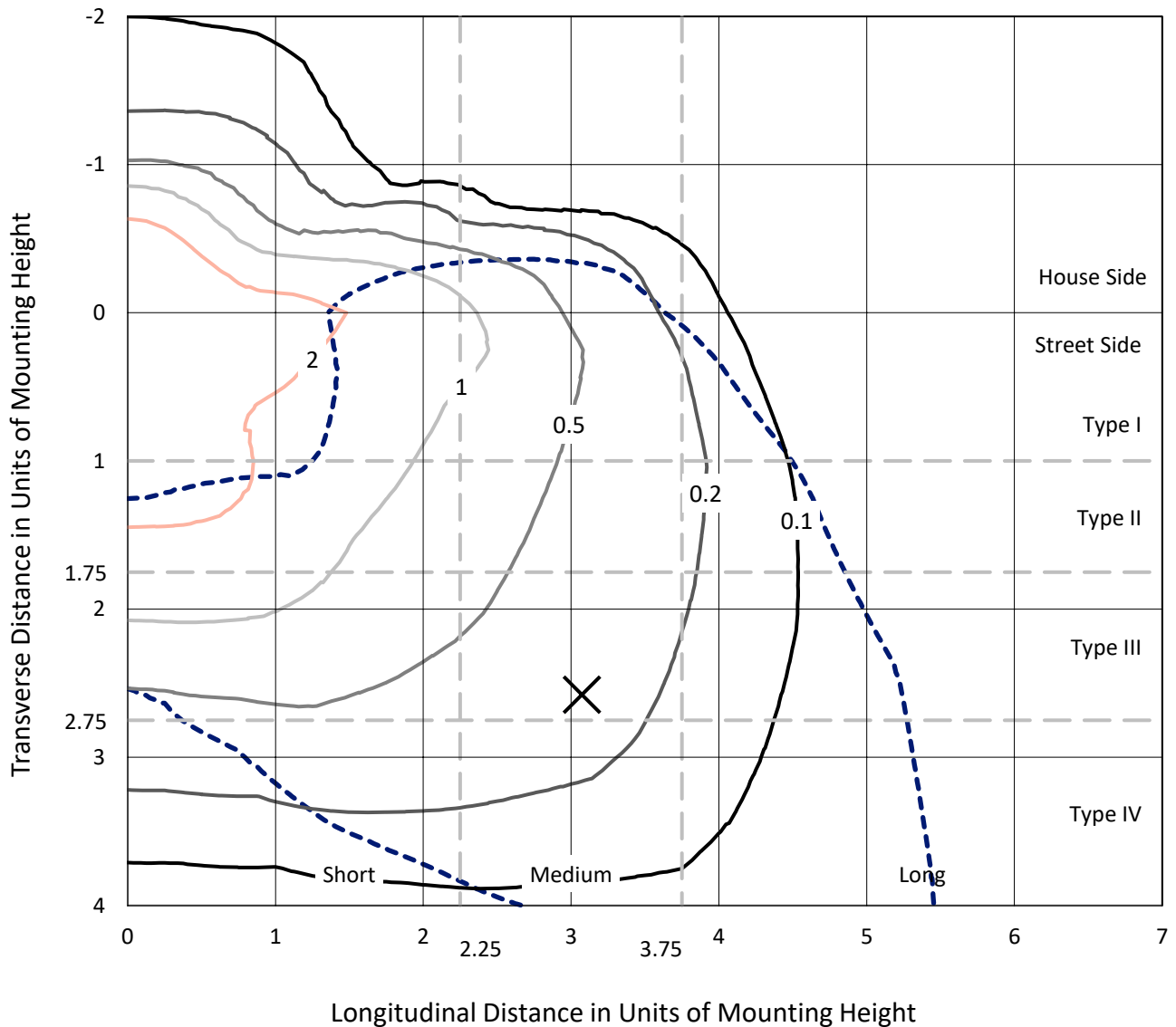
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P595044  
 CATALOG NUMBER: IST-PA1B-730-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

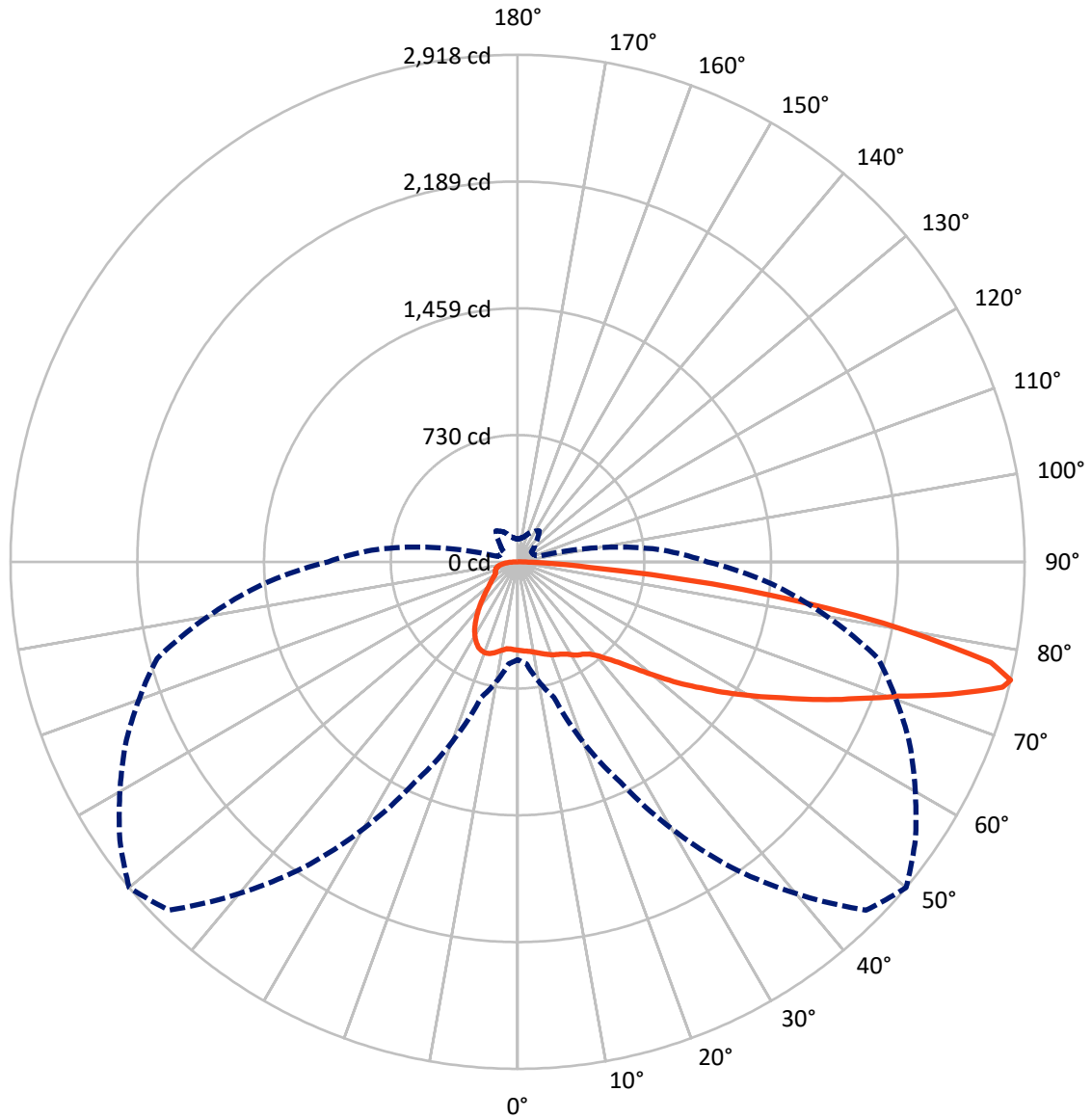
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P595044  
CATALOG NUMBER: IST-PA1B-730-U-T4W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P595044  
 CATALOG NUMBER: IST-PA1B-730-U-T4W

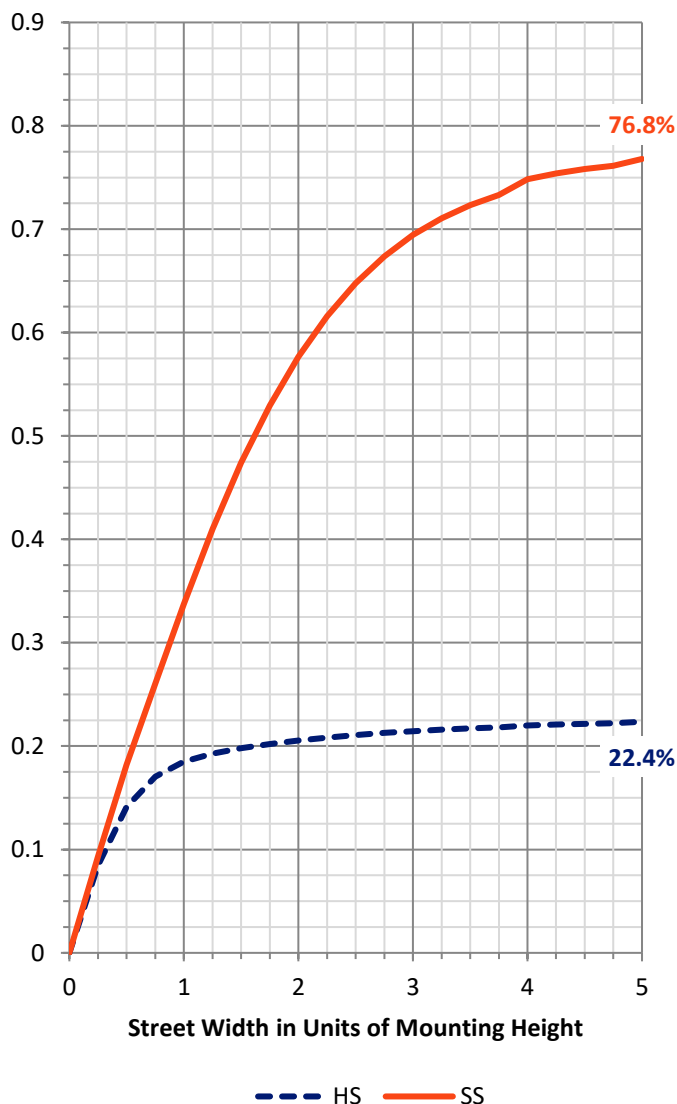
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1067.2	0.0	1067.2
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	3597.8	0.0	3597.8
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	4665.0	0.0	4665.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.4	1.1
10°-20°	155.2	3.3
20°-30°	262.2	5.6
30°-40°	359.4	7.7
40°-50°	529.4	11.3
50°-60°	832.7	17.9
60°-70°	1198.6	25.7
70°-80°	1089.9	23.4
80°-90°	188.2	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°	4665.0	100.0
0°-180°	4665.0	100.0

**Coefficient of Utilization**

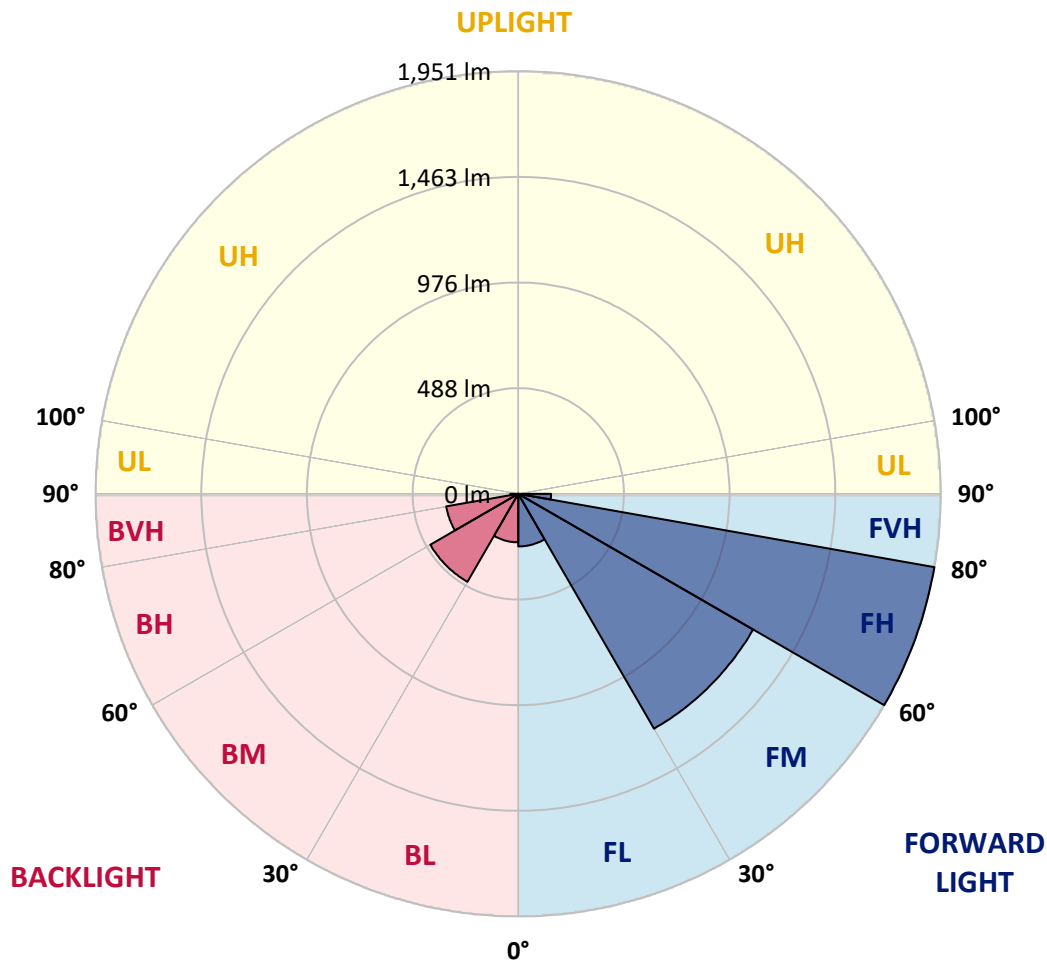


REPORT NUMBER: P595044  
 CATALOG NUMBER: IST-PA1B-730-U-T4W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	242.8	5.2			
FM (30°-60°)	1252.5	26.8			
FH (60°-80°)	1951.1	41.8			G2/5000
FVH (80°-90°)	151.5	3.2			G2/225
BL (0°-30°)	224.0	4.8	B1/500		
BM (30°-60°)	469.0	10.1	B1/1000		
BH (60°-80°)	337.4	7.2	B1/500		G1/500
BVH (80°-90°)	36.7	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





REPORT NUMBER: P595044  
 CATALOG NUMBER: IST-PA1B-730-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5
2.5°	519.9	519.9	521.0	518.8	518.8	513.0	513.0	511.9	509.6	508.5	506.2
5°	539.3	539.3	535.9	530.2	526.8	519.9	516.5	514.2	509.6	503.9	498.2
7.5°	559.9	557.6	555.3	546.2	539.3	526.8	521.0	517.6	508.5	500.5	497.0
10°	581.6	578.2	572.5	561.0	550.8	535.9	529.0	524.5	514.2	507.3	499.3
12.5°	594.2	594.2	587.3	573.6	559.9	541.6	538.2	532.5	522.2	513.0	505.0
15°	606.7	607.9	601.0	585.0	569.0	555.3	549.6	546.2	534.8	521.0	510.8
17.5°	619.3	618.2	611.3	593.0	575.9	563.3	559.9	555.3	543.9	531.3	521.0
20°	628.5	626.2	623.9	601.0	583.9	575.9	571.3	567.9	556.5	542.8	529.0
22.5°	630.7	633.0	630.7	603.3	589.6	580.5	579.3	575.9	566.7	554.2	540.5
25°	631.9	633.0	636.4	610.2	597.6	590.7	588.5	586.2	579.3	569.0	550.8
27.5°	637.6	638.7	638.7	614.7	607.9	603.3	601.0	601.0	597.6	585.0	566.7
30°	638.7	639.9	642.2	626.2	623.9	620.5	621.6	620.5	614.7	601.0	580.5
32.5°	646.7	647.9	653.6	633.0	635.3	638.7	639.9	638.7	627.3	615.9	598.7
35°	673.0	671.9	676.4	650.2	647.9	649.0	652.4	651.3	646.7	636.4	625.0
37.5°	757.6	757.6	745.0	690.2	673.0	670.7	673.0	678.7	679.9	670.7	661.6
40°	906.1	898.1	891.3	772.4	717.6	703.9	710.7	714.1	723.3	723.3	723.3
42.5°	1059.2	1060.4	1058.1	900.4	797.6	763.3	764.4	772.4	791.8	795.3	805.6
45°	1195.2	1203.2	1220.3	1048.9	915.3	838.7	830.7	838.7	866.1	889.0	915.3
47.5°	1301.5	1292.3	1330.0	1204.3	1050.1	941.5	921.0	923.3	961.0	997.5	1038.7
50°	1392.9	1395.2	1412.3	1363.2	1220.3	1058.1	1030.7	1026.1	1079.8	1118.6	1188.3
52.5°	1495.7	1488.9	1514.0	1502.6	1386.0	1200.9	1157.5	1143.8	1202.1	1256.9	1332.3
55°	1544.8	1551.7	1603.1	1631.7	1542.6	1328.9	1280.9	1285.5	1347.2	1405.4	1510.6
57.5°	1631.7	1638.5	1698.0	1757.4	1682.0	1464.9	1422.6	1422.6	1492.3	1557.4	1719.7
60°	1750.5	1751.7	1812.2	1915.1	1804.2	1596.3	1568.8	1567.7	1643.1	1718.5	1966.5
62.5°	1803.1	1816.8	1907.1	2040.8	1964.2	1757.4	1725.4	1734.5	1801.9	1889.9	2241.9
65°	1732.2	1761.9	1950.5	2125.3	2107.0	1925.3	1912.8	1925.3	1966.5	2061.3	2533.2
67.5°	1498.0	1538.0	1870.5	2182.4	2221.3	2119.6	2101.3	2099.0	2125.3	2231.6	2717.2
70°	1376.9	1400.9	1659.1	2204.2	2312.7	2316.1	2316.1	2301.3	2297.8	2375.5	2734.3
72.5°	1133.5	1158.6	1399.7	2083.0	2399.5	2578.9	2605.2	2550.4	2465.8	2449.8	2447.5
75°	807.8	826.1	1034.1	1638.5	2288.7	2831.5	2884.0	2777.8	2542.4	2287.6	1784.8
76°	563.3	589.6	807.8	1399.7	2149.3	2836.0	2918.3	2794.9	2491.0	2148.2	1470.6
77.5°	285.7	294.8	467.3	940.4	1798.5	2705.8	2785.8	2647.5	2267.0	1735.7	933.5
80°	108.6	112.0	166.8	342.8	987.2	2101.3	2132.2	1945.9	1500.3	741.6	335.9
82.5°	57.1	59.4	93.7	169.1	405.6	1155.2	1303.8	1085.5	588.5	222.8	98.3
85°	28.6	30.9	54.8	102.8	201.1	361.1	418.2	395.4	195.4	84.6	36.6
87.5°	11.4	13.7	27.4	45.7	81.1	70.8	78.8	101.7	62.8	40.0	12.6
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: P595044  
 CATALOG NUMBER: IST-PA1B-730-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5
2.5°	506.2	505.0	506.2	505.0	506.2	506.2	507.3	505.0	505.0	507.3	503.9
5°	498.2	497.0	498.2	500.5	501.6	503.9	508.5	507.3	509.6	511.9	513.0
7.5°	494.8	493.6	497.0	498.2	501.6	506.2	513.0	517.6	519.9	524.5	522.2
10°	498.2	498.2	502.8	506.2	511.9	517.6	523.3	527.9	533.6	537.0	535.9
12.5°	503.9	502.8	510.8	515.3	523.3	529.0	533.6	535.9	540.5	545.0	543.9
15°	509.6	510.8	522.2	531.3	540.5	542.8	543.9	541.6	543.9	546.2	546.2
17.5°	521.0	522.2	534.8	545.0	553.0	550.8	545.0	539.3	539.3	540.5	541.6
20°	530.2	532.5	547.3	556.5	561.0	551.9	542.8	535.9	532.5	533.6	532.5
22.5°	540.5	545.0	559.9	564.5	557.6	546.2	534.8	525.6	525.6	526.8	526.8
25°	553.0	555.3	565.6	563.3	550.8	533.6	524.5	521.0	519.9	521.0	522.2
27.5°	564.5	565.6	571.3	555.3	531.3	513.0	509.6	510.8	511.9	513.0	514.2
30°	579.3	581.6	575.9	543.9	507.3	486.8	486.8	493.6	495.9	499.3	498.2
32.5°	597.6	599.9	582.7	529.0	476.5	455.9	457.1	467.3	474.2	476.5	477.6
35°	628.5	623.9	587.3	508.5	443.3	418.2	419.3	431.9	441.1	444.5	442.2
37.5°	666.2	665.0	594.2	482.2	402.2	379.4	380.5	386.2	395.4	396.5	397.6
40°	729.0	719.9	605.6	447.9	361.1	339.4	337.1	340.5	339.4	341.6	342.8
42.5°	819.3	795.3	620.5	409.1	324.5	301.7	299.4	293.7	286.8	279.9	276.5
45°	925.5	887.8	638.7	369.1	286.8	266.2	260.5	253.7	240.0	225.1	220.5
47.5°	1062.7	990.7	659.3	329.1	251.4	235.4	230.8	220.5	204.5	187.4	184.0
50°	1203.2	1111.8	679.9	295.9	222.8	213.7	209.1	198.8	178.3	162.3	158.8
52.5°	1366.6	1231.8	701.6	266.2	197.7	197.7	194.2	178.3	158.8	144.0	141.7
55°	1555.1	1355.2	735.9	237.7	179.4	184.0	179.4	163.4	145.1	134.8	133.7
57.5°	1780.2	1511.7	779.3	206.8	163.4	166.8	166.8	155.4	142.8	136.0	134.8
60°	2006.5	1670.5	806.7	184.0	150.8	154.3	161.1	155.4	147.4	144.0	142.8
62.5°	2223.6	1832.8	759.9	164.5	138.3	148.5	165.7	166.8	158.8	160.0	160.0
65°	2385.8	1956.2	614.7	147.4	130.3	152.0	179.4	180.5	166.8	163.4	162.3
67.5°	2441.8	1990.5	413.6	136.0	125.7	154.3	195.4	190.8	166.8	160.0	156.5
70°	2335.6	1864.8	268.5	125.7	118.8	152.0	208.0	196.5	165.7	155.4	150.8
72.5°	1958.5	1590.6	179.4	116.5	112.0	149.7	216.0	196.5	162.3	147.4	142.8
75°	1359.7	1086.6	133.7	105.1	101.7	146.3	218.2	193.1	154.3	138.3	134.8
76°	1091.2	814.7	121.1	100.6	97.1	144.0	217.1	189.7	148.5	133.7	130.3
77.5°	689.0	468.5	101.7	92.6	90.3	139.4	212.5	181.7	140.5	125.7	122.3
80°	241.1	171.4	77.7	75.4	76.6	129.1	200.0	165.7	124.5	110.8	106.3
82.5°	96.0	78.8	58.3	58.3	60.6	110.8	180.5	146.3	108.6	91.4	84.6
85°	37.7	34.3	41.1	41.1	43.4	90.3	150.8	114.3	74.3	57.1	54.8
87.5°	11.4	16.0	18.3	19.4	20.6	45.7	85.7	50.3	33.1	24.0	19.4
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)