

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: P522630

Luminaire Tested: **GALN-SA1B-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4579 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

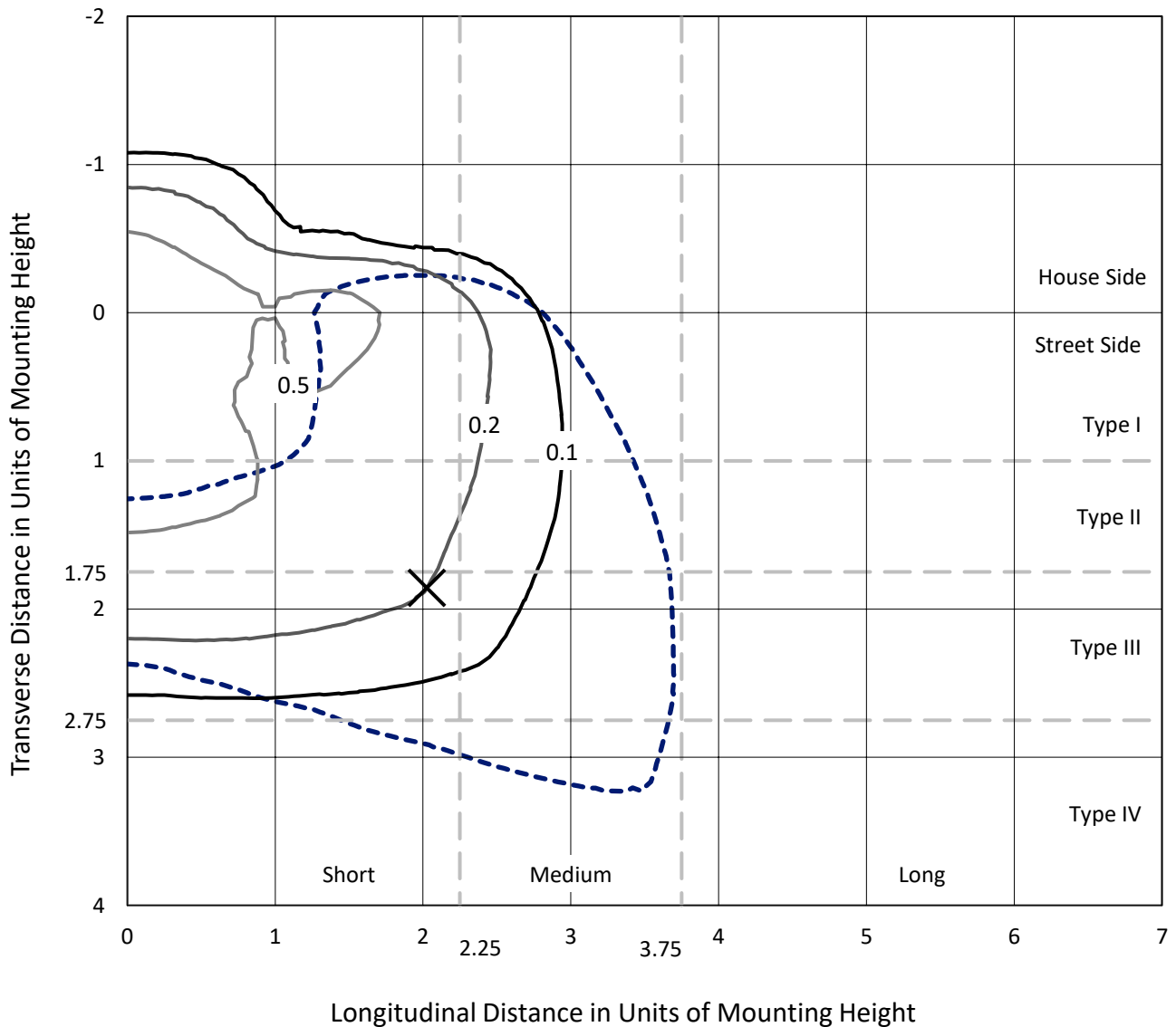
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

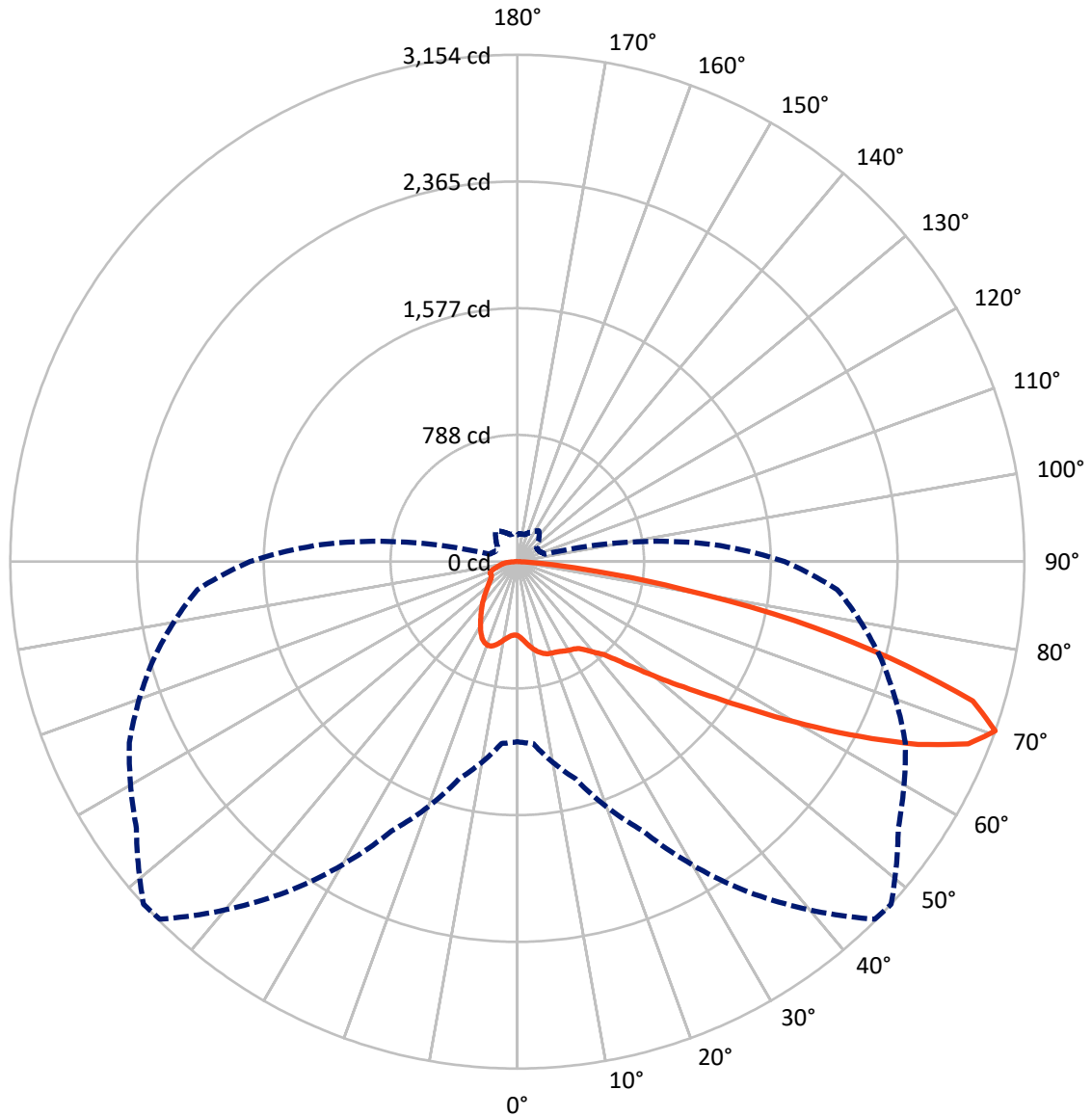
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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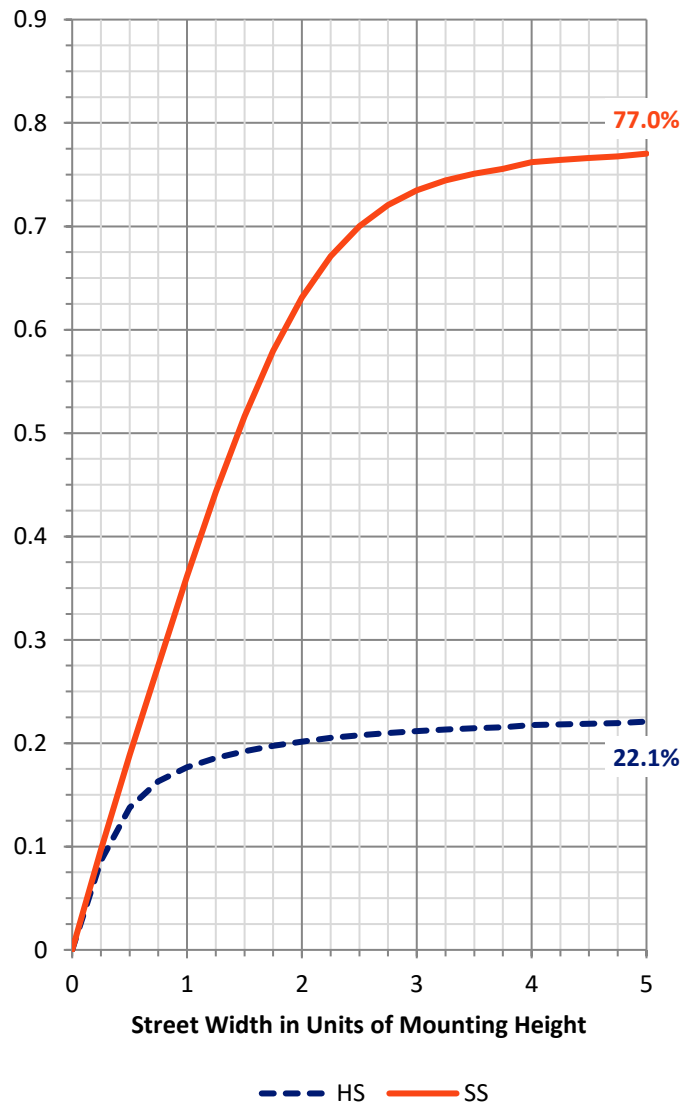
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1036.8	0.0	1036.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3542.2	0.0	3542.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	4579.0	0.0	4579.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	1.0
10°-20°	158.4	3.5
20°-30°	263.4	5.8
30°-40°	373.4	8.2
40°-50°	551.2	12.0
50°-60°	954.7	20.8
60°-70°	1348.5	29.4
70°-80°	775.2	16.9
80°-90°	107.0	2.3
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°	4579.0	100.0
0°-180°	4579.0	100.0



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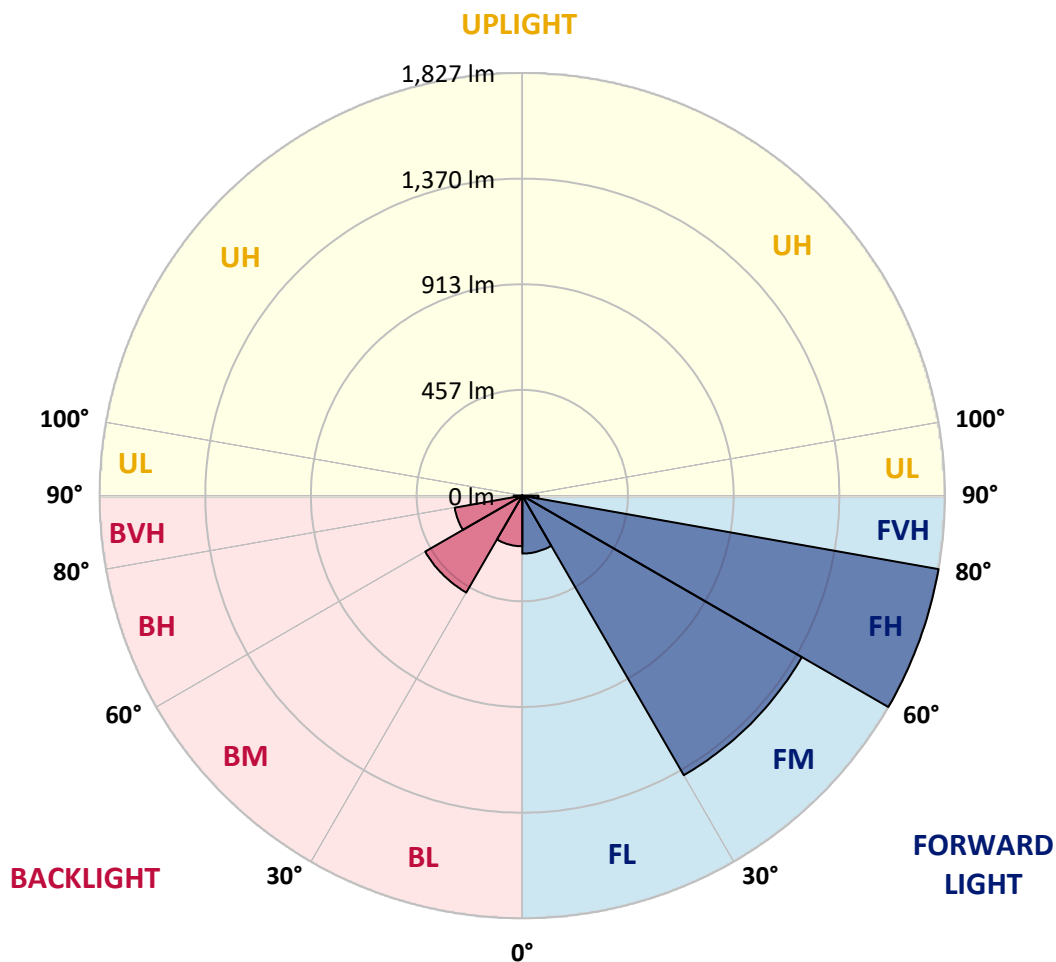
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	250.4	5.5			
FM (30°-60°)	1395.1	30.5			
FH (60°-80°)	1826.8	39.9			G2/5000
FVH (80°-90°)	69.9	1.5			G1/100
BL (0°-30°)	218.8	4.8	B1/500		
BM (30°-60°)	484.1	10.6	B1/1000		
BH (60°-80°)	296.8	6.5	B1/500		G1/500
BVH (80°-90°)	37.1	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7
2.5°	489.3	487.6	487.4	483.7	481.7	478.1	476.6	473.2	469.0	464.8	460.9
5°	527.8	527.8	526.1	520.9	512.8	504.5	500.8	494.2	482.5	472.9	464.8
7.5°	567.2	567.7	564.3	556.7	545.2	531.7	528.3	518.5	501.8	487.9	475.8
10°	601.3	601.3	596.6	586.4	571.9	557.2	553.8	542.7	524.1	506.7	491.0
12.5°	627.3	627.3	621.2	607.7	592.0	578.8	574.8	564.3	546.9	527.5	507.7
15°	644.2	643.0	636.1	620.9	605.7	594.2	591.5	582.7	566.8	547.2	524.9
17.5°	644.9	644.4	637.8	625.1	611.8	604.0	602.3	596.4	583.9	565.3	541.8
20°	630.7	631.7	627.3	618.2	611.8	608.4	607.7	605.7	596.9	579.5	556.0
22.5°	615.5	617.2	613.1	608.2	607.7	611.1	611.6	612.1	606.4	589.5	568.0
25°	611.8	613.1	608.9	604.5	607.2	616.3	618.2	620.2	615.8	601.5	582.2
27.5°	630.5	629.5	621.4	611.8	613.6	625.8	628.5	630.7	628.5	616.3	599.8
30°	683.1	680.0	663.8	635.9	627.0	635.6	638.3	644.4	644.4	635.4	618.9
32.5°	771.4	765.2	735.6	680.7	650.1	644.9	647.6	657.7	662.8	655.7	637.8
35°	878.4	872.1	829.7	755.9	692.2	663.5	662.8	674.1	687.8	671.9	648.6
37.5°	986.0	979.4	928.4	845.6	753.7	702.7	698.3	702.3	708.1	679.0	663.5
40°	1093.6	1085.7	1041.1	945.8	828.9	754.7	743.2	725.5	723.1	702.3	692.5
42.5°	1200.2	1193.1	1170.5	1058.3	919.1	805.4	787.8	757.4	766.7	754.2	745.6
45°	1307.7	1308.2	1284.2	1184.5	1027.9	899.0	875.2	827.7	849.8	845.1	850.0
47.5°	1403.0	1401.8	1393.2	1307.0	1162.9	1019.6	988.9	933.8	971.5	988.7	1026.2
50°	1495.4	1494.7	1495.2	1445.9	1319.7	1162.9	1129.1	1071.3	1156.3	1215.8	1283.0
52.5°	1627.7	1631.9	1602.3	1589.3	1510.4	1332.2	1295.0	1235.2	1374.6	1468.5	1599.6
55°	1760.5	1757.1	1733.8	1747.3	1709.8	1532.7	1493.7	1446.2	1617.7	1720.4	1917.4
57.5°	1838.7	1839.9	1863.7	1929.6	1956.1	1782.6	1747.3	1710.6	1890.9	1963.7	2200.1
60°	1909.0	1914.7	1983.0	2107.5	2179.3	2089.6	2058.3	2022.5	2141.6	2170.5	2445.6
62.5°	1931.1	1948.5	2067.8	2254.0	2396.9	2436.1	2397.1	2318.2	2380.2	2369.0	2612.0
65°	1821.1	1844.8	2058.7	2308.9	2591.2	2764.9	2740.2	2593.6	2583.6	2515.7	2639.2
67.5°	1531.4	1555.2	1829.9	2193.8	2671.6	3049.6	3024.9	2794.6	2707.1	2529.4	2433.4
70°	1120.5	1135.5	1398.1	1847.0	2510.1	3145.2	3153.8	2892.6	2663.0	2343.0	1998.0
72.5°	645.7	678.7	862.8	1299.4	2050.7	2903.6	2963.1	2688.7	2384.1	1954.6	1396.9
75°	277.6	278.4	398.9	716.7	1388.8	2333.9	2391.5	2228.8	1872.3	1351.6	745.9
77.5°	132.1	134.5	175.4	320.0	764.5	1612.5	1767.9	1574.6	1197.5	649.3	281.8
80°	85.8	87.5	107.3	158.8	374.9	935.0	1043.3	908.3	528.3	232.0	121.5
82.5°	51.9	52.4	71.8	97.0	206.3	423.4	499.1	394.3	225.4	138.9	71.5
85°	31.6	31.9	43.6	60.0	125.2	146.3	150.2	149.0	132.3	90.9	38.2
87.5°	15.2	15.7	22.5	28.4	49.3	45.3	42.9	49.7	62.5	49.0	16.4
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°	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7
2.5°	459.2	458.5	456.7	456.0	455.5	455.8	455.5	455.5	455.8	455.8	455.8
5°	461.4	460.2	457.5	457.5	458.9	462.4	465.6	468.0	470.7	470.5	470.5
7.5°	470.9	468.7	465.6	466.5	470.2	475.6	481.2	486.6	492.0	492.5	492.3
10°	484.9	482.7	479.3	480.5	486.4	494.5	501.6	509.4	515.3	517.0	516.5
12.5°	500.8	496.4	493.5	496.9	506.2	517.0	523.9	529.8	533.9	536.4	535.4
15°	517.0	512.8	509.4	516.5	527.8	537.8	541.3	542.3	543.0	545.4	544.9
17.5°	532.7	527.1	525.8	535.1	545.9	550.3	548.4	544.2	541.0	543.0	542.7
20°	546.7	542.3	541.8	551.1	555.2	551.1	542.7	535.4	529.8	530.2	530.0
22.5°	559.9	556.5	557.0	560.9	554.3	540.0	526.3	516.3	510.2	511.4	512.1
25°	574.6	571.2	572.4	566.0	544.2	519.5	499.6	491.0	488.6	491.0	492.8
27.5°	593.7	591.5	590.8	566.3	526.3	489.1	466.5	463.4	465.6	470.9	473.6
30°	614.3	614.3	610.4	562.1	501.8	452.6	433.0	433.5	441.1	448.7	451.3
32.5°	634.1	638.3	626.1	550.8	470.2	417.0	402.1	402.6	409.2	418.5	421.0
35°	650.6	662.6	639.5	530.2	433.0	387.1	375.9	369.3	369.5	376.6	378.6
37.5°	673.1	695.4	647.4	499.6	393.3	361.7	348.9	337.4	329.8	326.9	326.9
40°	712.3	745.1	649.3	454.3	355.8	337.4	319.3	305.6	290.9	277.6	275.2
42.5°	778.7	820.1	645.4	402.1	322.0	310.7	293.1	276.1	255.8	237.2	235.7
45°	896.3	917.6	634.9	347.9	291.8	285.0	267.8	249.4	227.9	211.2	210.0
47.5°	1084.7	1054.6	620.9	299.9	264.4	262.4	249.2	227.9	206.3	194.8	193.6
50°	1359.9	1270.2	618.9	265.1	242.3	243.3	232.5	212.9	194.1	184.5	183.0
52.5°	1691.2	1530.7	631.9	240.6	223.0	226.7	221.3	203.1	186.5	178.4	176.9
55°	2012.7	1765.0	639.8	221.5	204.8	211.7	212.4	197.2	182.1	174.0	173.0
57.5°	2273.6	1941.4	605.0	204.1	189.2	199.7	205.1	193.8	179.9	173.7	172.7
60°	2455.2	2024.7	506.0	188.7	177.6	190.1	202.4	194.1	185.2	186.0	186.5
62.5°	2513.0	1987.7	379.6	177.2	169.8	187.0	206.8	204.1	195.0	200.7	201.7
65°	2417.2	1834.8	275.2	168.1	162.9	189.2	220.0	211.5	191.6	195.8	195.8
67.5°	2096.5	1580.7	214.2	159.8	155.1	193.3	233.3	210.7	183.5	188.4	184.0
70°	1663.0	1222.7	178.4	150.4	146.8	187.2	234.5	203.1	174.0	175.0	166.6
72.5°	1103.6	803.9	153.4	141.6	134.0	168.3	224.4	193.3	164.7	159.0	150.7
75°	540.8	400.9	133.8	130.6	117.4	146.5	210.7	184.0	154.6	145.8	141.1
77.5°	209.5	170.5	114.2	116.6	102.2	129.1	192.6	170.8	141.4	129.4	125.7
80°	101.7	96.8	93.6	97.3	84.0	110.0	175.9	159.3	129.1	115.9	110.5
82.5°	63.2	59.8	71.8	75.7	64.7	100.5	166.9	149.5	113.7	96.1	91.6
85°	32.1	34.3	48.0	51.7	46.3	79.9	137.5	112.2	82.1	68.1	68.6
87.5°	12.3	16.4	25.2	27.2	24.7	42.1	75.7	65.4	52.7	35.8	33.1
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)