

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 765565_320MP

Luminaire Tested:

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 765565_320MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number:
Description: 400W MH TYPE V AREA
Light Source: 320 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 30000 (1 lamp)
Luminaire Lumens: 24143.4 lumens
Efficiency: 80.5%
Efficacy: 69.0 lumens/watt
Luminous Opening: (L: -2.1 ' x W: 0 ' x H: 1.3 '
IES Classification: Type III - Short - Cutoff
BUG Rating: B4 - U2 - G4

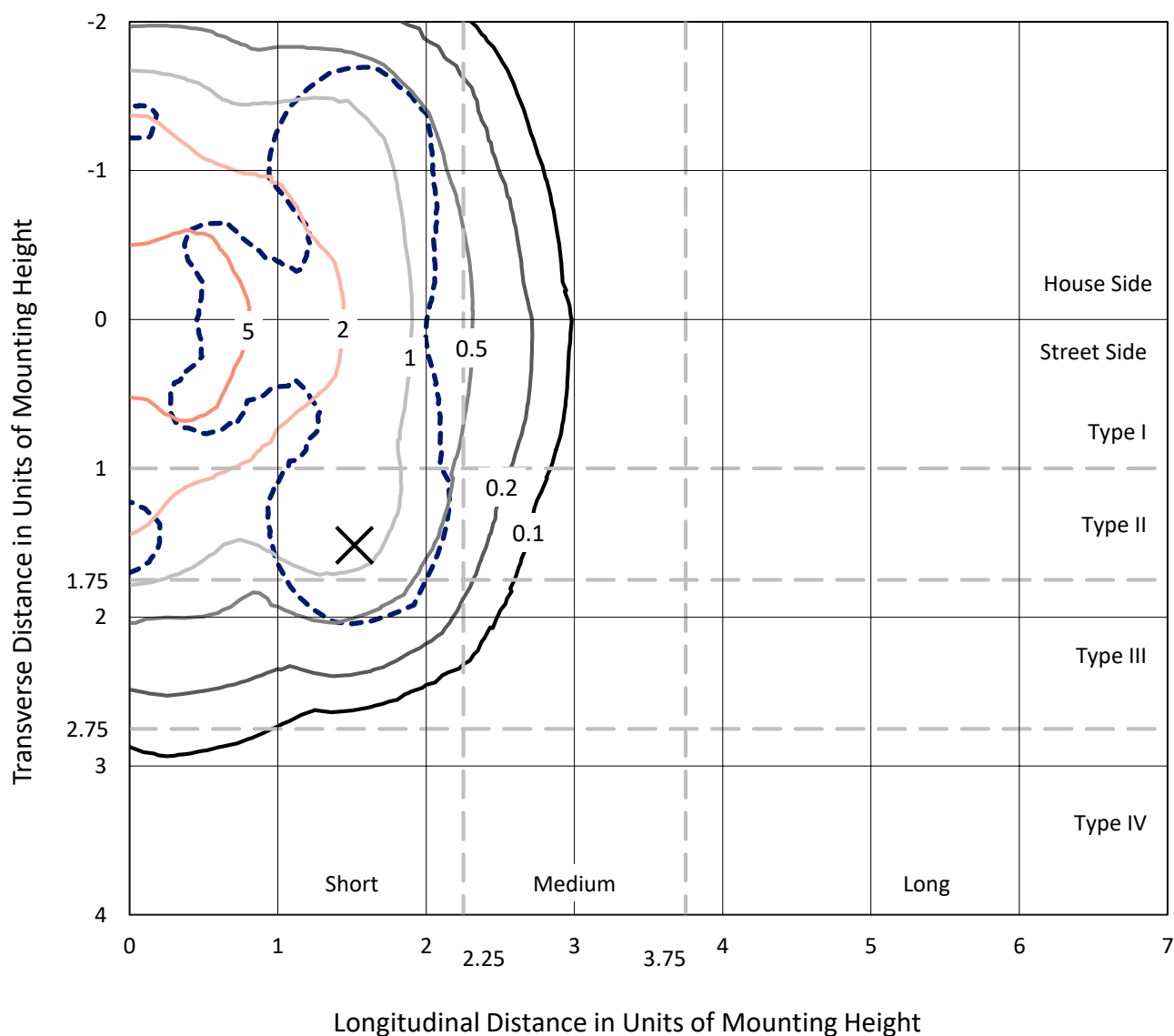
Input Watts (W): 350
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: 765565_320MP
 CATALOG NUMBER:

Iso-Footcandle Lines of Horizontal Illumination

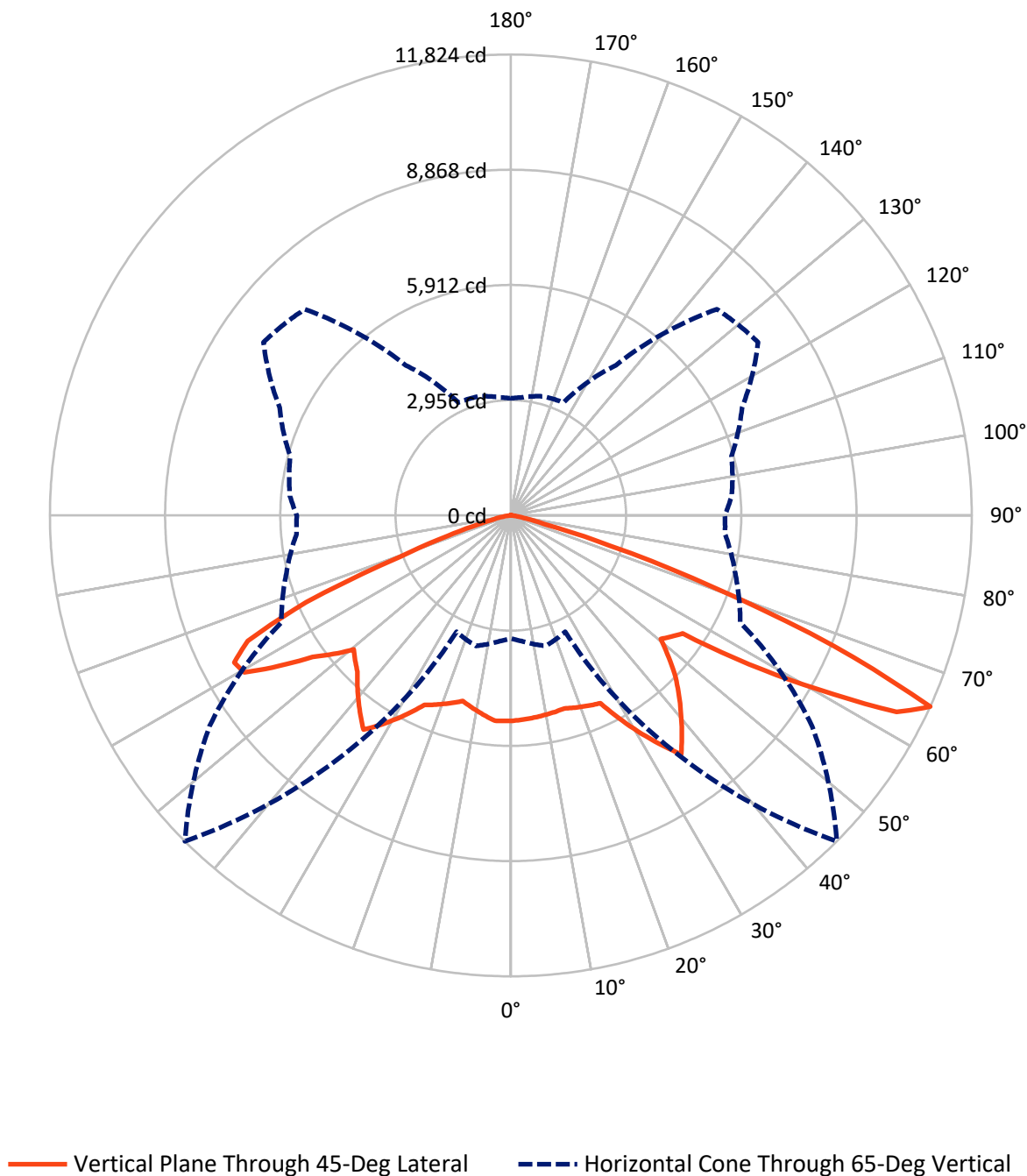
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - Cutoff

REPORT NUMBER: 765565_320MP
CATALOG NUMBER:

Luminous Intensity Polar Plot



REPORT NUMBER: 765565_320MP

CATALOG NUMBER:

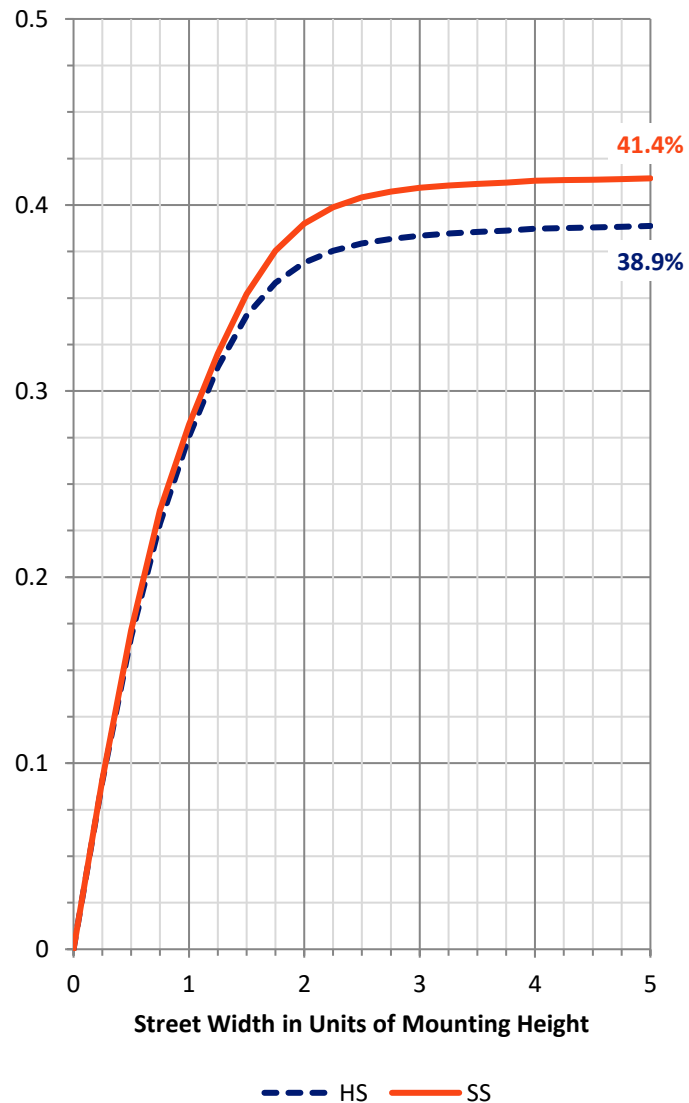
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11696.9	14.9	11711.8
	% Lamp	39.0	0.0	39.0
Street Side	Lumens	12418.0	13.7	12431.7
	% Lamp	41.4	0.0	41.4
Total	Lumens	24114.9	28.5	24143.4
	% Lamp	80.4	0.1	80.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	495.2	2.1	1.7
10°-20°	1452.3	6.0	4.8
20°-30°	2494.1	10.3	8.3
30°-40°	3612.2	15.0	12.0
40°-50°	4338.6	18.0	14.5
50°-60°	5220.7	21.6	17.4
60°-70°	5245.8	21.7	17.5
70°-80°	1119.5	4.6	3.7
80°-90°	72.8	0.3	0.2
90°-100°	10.0	0.0	0.0
100°-110°	10.7	0.0	0.0
110°-120°	6.1	0.0	0.0
120°-130°	1.5	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	24114.9	99.9	80.4
0°-180°	24143.4	100.0	80.5

Coefficient of Utilization



REPORT NUMBER: 765565_320MP

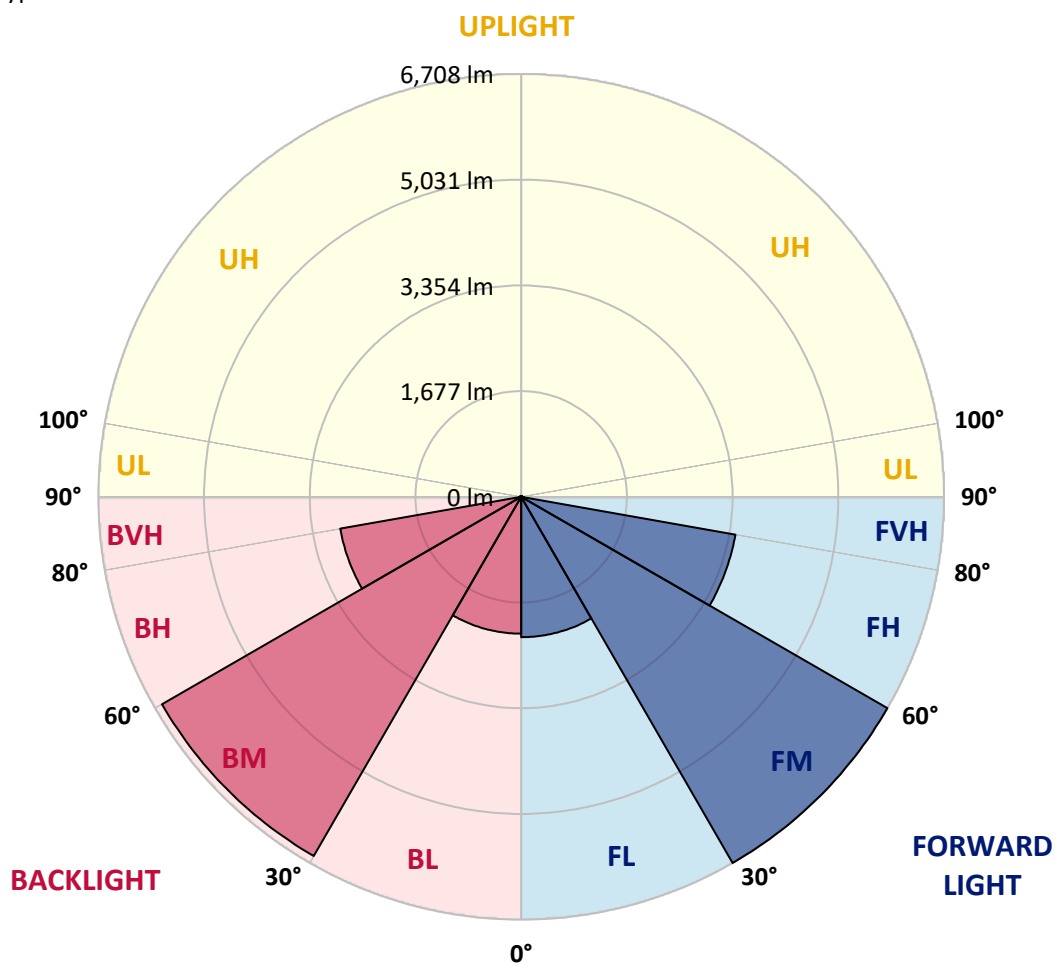
CATALOG NUMBER:

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2227.3	7.4			
FM	(30°-60°)	6707.6	22.4			
FH	(60°-80°)	3451.5	11.5			G2/5000
FVH	(80°-90°)	36.6	0.1			G1/100
BL	(0°-30°)	2170.7	7.2	B3/2500		
BM	(30°-60°)	6579.6	21.9	B4/8500		
BH	(60°-80°)	2913.8	9.7	B4/5000		G4/5000
BVH	(80°-90°)	36.3	0.1			G1/100
UL	(90°-100°)	10.0	0.0		U2/50	
UH	(100°-180°)	14.9	0.0		U2/50	
Trapped Light		5856.6	19.5			

BUG Rating: B4-U2-G4

Type III Short





REPORT NUMBER: 765565_320MP

CATALOG NUMBER:

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5268.6	5268.6	5268.6	5268.6	5268.6	5268.6	5268.6	5268.6	5268.6	5268.6	5268.6
5°	5360.5	5344.1	5327.8	5290.5	5263.2	5230.4	5230.4	5218.6	5239.5	5234.1	5211.3
15°	4805.6	4798.4	4832.9	4930.3	5016.7	5139.5	5215.9	5288.7	5317.8	5360.5	5365.1
25°	4575.5	4596.4	4736.5	5016.7	5230.4	5336.9	5371.4	5550.6	5811.7	5921.8	5931.8
35°	4150.7	4198.9	4778.4	6159.2	7558.2	7524.6	6768.6	6423.9	6386.6	6333.8	6368.4
45°	4541.8	4464.5	4448.2	4893.9	5476.0	5928.1	5815.3	6229.2	6857.8	7091.6	7091.6
50°	5621.6	5488.8	4711.9	4611.9	4809.3	4982.1	4914.8	5433.3	6260.2	6423.0	6437.5
55°	7076.1	6400.2	5196.8	4587.3	5051.2	5347.8	5290.5	5909.0	6731.4	6736.8	6750.5
60°	5816.3	5641.6	4858.4	4147.1	6167.4	9051.8	8416.0	6859.6	6939.7	6830.5	6891.4
62.5°	4190.7	3675.0	4302.6	3589.4	7250.8	11110.4	9643.1	7005.2	6450.3	6093.7	6122.8
65°	3156.5	3236.5	3464.8	3293.8	7505.5	11823.5	9437.5	6492.1	5970.9	5516.1	5489.7
67.5°	2557.9	2710.7	2839.0	2876.3	6413.9	8938.1	7710.1	5466.9	4943.0	4708.3	4684.7
70°	1913.0	2268.6	2190.4	2164.0	4349.9	5486.1	4226.2	3144.6	3154.6	2908.1	2826.3
72.5°	1440.0	1474.5	1494.5	1126.1	1864.8	2670.7	2100.4	1322.6	1332.6	1106.1	1290.8
75°	892.4	994.2	961.5	630.4	786.8	884.2	897.8	741.4	671.3	670.4	686.8
77.5°	671.3	677.7	654.9	384.8	375.7	448.5	412.1	371.1	453.0	347.5	361.1
80°	353.9	367.5	378.4	205.6	198.3	210.1	190.1	171.9	157.4	164.6	166.5
82.5°	175.6	167.4	148.3	111.9	111.9	97.3	82.8	74.6	77.3	81.9	78.2
85°	45.5	53.7	48.2	42.8	42.8	42.8	34.6	27.3	28.2	20.9	16.4
87.5°	16.4	20.0	20.0	11.8	15.5	11.8	2.7	0.0	0.0	0.0	0.0
90°	14.6	20.9	16.4	9.1	10.9	2.7	0.0	0.0	0.0	0.0	0.0
95°	30.9	34.6	34.6	20.9	20.0	14.6	0.0	0.0	0.0	0.0	0.0
105°	11.8	15.5	19.1	22.7	23.7	9.1	0.0	0.0	0.0	0.0	0.0
115°	2.7	4.5	0.9	0.0	3.6	3.6	2.7	6.4	11.8	3.6	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: 765565_320MP

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5268.6	5268.6	5268.6	5268.6	5268.6	5268.6	5268.6	5268.6	5268.6	5268.6
5°	5206.8	5180.4	5165.9	5266.8	5282.3	5182.2	5144.9	5079.4	5049.4	5133.1
15°	5340.5	5360.5	5174.0	5045.8	4915.7	4762.9	4642.8	4597.3	4550.0	4532.7
25°	5887.2	5760.8	5497.9	5412.4	5343.2	5106.7	4805.6	4542.8	4412.7	4392.7
35°	6463.0	6565.8	6480.3	6576.7	6670.4	6141.0	5200.4	4552.8	4225.3	4207.1
45°	6957.9	6517.6	5891.8	5734.4	5617.0	5117.6	4749.2	4883.9	5001.2	4921.2
50°	6366.6	5921.8	5211.3	5227.7	5296.8	4868.4	4653.7	5146.8	5976.3	5894.5
55°	6837.8	6705.9	6103.7	6322.0	6246.5	5051.2	4486.4	5134.9	6156.5	6160.1
60°	6695.9	6649.5	7092.5	8117.6	7935.7	5285.9	3851.4	4363.6	4214.4	4217.1
62.5°	6194.7	6398.4	7159.8	8560.6	8034.0	5165.9	3542.1	3768.6	3547.6	3395.7
65°	5688.0	5859.0	6544.0	7742.9	7478.2	4702.9	3193.8	3161.9	3036.4	3001.8
67.5°	4639.2	4784.7	4973.9	6110.1	5702.5	3821.4	2607.9	2460.6	2547.0	2491.5
70°	2327.8	2443.3	2567.9	3352.0	3031.8	2147.7	1431.8	1762.0	2110.4	2053.1
72.5°	1278.0	1357.2	1470.0	1645.5	1698.3	1125.2	975.1	1298.1	1377.2	1352.6
75°	609.5	634.9	776.8	846.9	858.7	712.2	630.4	876.0	1022.4	1006.1
77.5°	357.5	367.5	391.1	409.3	422.1	445.7	382.0	572.2	717.7	773.2
80°	200.1	176.5	186.5	229.2	326.6	233.8	227.4	283.8	381.1	374.8
82.5°	67.3	72.8	79.1	102.8	108.2	102.8	88.2	109.2	171.0	163.7
85°	20.0	24.6	30.0	31.8	35.5	48.2	39.1	42.8	50.0	57.3
87.5°	0.0	0.0	0.9	3.6	7.3	12.7	14.6	8.2	8.2	7.3
90°	0.0	0.0	0.0	0.0	0.0	3.6	3.6	0.9	0.0	11.8
95°	0.0	0.0	0.0	0.0	0.0	3.6	18.2	34.6	16.4	11.8
105°	0.0	0.0	0.0	0.0	0.0	3.6	10.9	36.4	63.7	73.7
115°	0.0	10.9	7.3	2.7	8.2	6.4	8.2	12.7	27.3	28.2
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)